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Background Values of Gross Alpha and Gross Beta in Soil for Lawrence Livermore National Laboratory

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Gretchen Gallegos



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Introduction

Lawrence Livermore National Laboratory (LLNL) maintains a continuing program for the evaluation of soil prior to construction activities. When soil is removed, it must be evaluated for possible contamination with radioactive materials before it can be reused or properly sent for disposal. To make an appropriate decision about whether or not radioactive contamination is present in specific soil samples, the natural background concentration of radiation must be characterized.

In mid-1991, an evaluation of background radioactivity in soil was conducted based on the existing analytical results for soil samples in the Environmental Protection Department (EPD) database, which was comprised mostly of samples collected for the Environmental Restoration Division. The purpose of the evaluation was to estimate the background values of gross alpha, gross beta and tritium. At the time, there were 184 samples identified in the database from uncontaminated areas; the statistics calculated for these data are shown in Table 1.

Table 1. Statistics for gross alpha and gross beta in soil developed in 1991.

	Average	Standard Deviation	Average plus Two Standard Deviations
Gross alpha	5.5 pCi/g	4.6 pCi/g	15 pCi/g
Gross beta	14 pCi/g	5.8 pCi/g	25 pCi/g

The average plus two standard deviations was used for gross alpha and gross beta to represent background. That is, 15 pCi/g gross alpha and 25 pCi/g gross beta were determined to be the level for unrestricted use or disposal of soil.

In the years since 1991, LLNL has collected numerous additional soil samples from uncontaminated areas, and the application of sophisticated statistical methods for determining background values has become more routine. This document revisits the calculation of background for gross alpha and gross beta. The work consisted of two efforts: one to reconstruct the information used in 1991 and conduct calculations that would meet current standards, and the second, to use the larger set of data that have been acquired in the intervening years to update the background estimate.

Reconstruction of 1991 Calculation

A query of the current EPD database of all soils data having gross alpha and gross beta analytical results was conducted. To get to a reasonable data set to represent what would have been available for the 1991 calculation, all data from locations sampled after June 30, 1991, were excluded. This date was chosen to allow time for the analytical results to be returned from the analytical laboratory, for a person to calculate the statistics, and for the results to be approved and authorized for use. In addition, all QA samples, duplicate samples, tank samples, and

samples from depths greater than 20 feet were excluded, even if their date was June 30, 1991, or before. The resulting data set consisted of 185 samples from both the Livermore site and Site 300. Four of these 185 samples were excluded because they were obviously either outliers or from contaminated areas. The resulting statistics for these 181 samples are shown in Table 2. The data used for the reconstruction are provided in Appendix A.

Table 2. Statistics for gross alpha and gross beta in soil reconstructed for mid-1991.

	Mean	Standard Deviation	Mean plus Two SD	95th UCL of 95th %ile
Gross alpha	7.43 pCi/g	4.72 pCi/g	16.9 pCi/g	17 pCi/g
Gross beta	14.4 pCi/g	5.15 pCi/g	24.7 pCi/g	23 pCi/g

This table includes the mean (average) and the standard deviation (SD) of the 181 samples to provide a comparison to the 1991 estimate. It also provides the result of the calculation of the mean plus two standard deviations and the nonparametric 95th upper confidence limit (UCL) of the 95th percentile. The nonparametric UCL is the rank, r , of a set of numbers, calculated according to Eq. 1 (U.S EPA, 2007), where n is the number of results, p is the percentile of interest, and $z_{(1-\alpha)}$ is the upper $(1 - \alpha)$ percentile of a standard normal distribution.

$$r = np + z_{(1-\alpha)} \sqrt{np(1-p)} + 0.5 \quad \text{Eq. 1, or}$$

$$r = n * 0.95 + 1.645 * \sqrt{n * 0.95 * 0.05} + 0.5$$

The 95th UCL of the 95th percentile has been recommended by the U.S. EPA as an appropriate statistic to represent background for the comparison of a single analytical result for the purpose of determining if the sample is within the range of background values (U.S. EPA, 1989). This quantity represents a value that has 95% confidence that it will not be exceeded 95% of the time. The UCL calculated here used nonparametric statistical equations because the data were not normally or lognormally distributed. Whether the background value was determined by the mean plus two standard deviations or the 95th UCL of the 95th percentile, the selection of 15 pCi/g for gross alpha and 25 pCi/g for gross beta, was not unreasonable based on the data set available in 1991.

New Evaluation of Soil Data

Soil samples specifically identified in the EPD database as pre-construction soil samples were collected in the years 1995 through 2006. During this time, more than 600 soil samples were collected in areas known or reasonably believed to be free from contamination. These samples were collected at varying depths, from the surface to many feet deep, and from both the Livermore site and Site 300. The gross alpha and beta results for these samples (excluding likely areas of contamination, duplicates, reanalysis and questionable results due to analytical issues) were determined to not be normally or lognormally distributed and were used to calculate the nonparametric 95th UCL of the 95th percentile. The statistics are provided in Table 3. The data supporting these calculations are provided in Appendix B.

Table 3. Statistics for gross alpha and gross beta in soil samples from uncontaminated areas.

	N	Mean	Standard Deviation	Mean plus Two SD	95th UCL of 95th %ile
Livermore site					
Gross alpha	475	2.7 pCi/g	1.56 pCi/g	5.8 pCi/g	6.5 pCi/g
Gross beta	475	3.6 pCi/g	3.2 pCi/g	10.0 pCi/g	11 pCi/g
Site 300					
Gross alpha	86	5.1 pCi/g	2.9 pCi/g	10.9 pCi/g	11.4 pCi/g
Gross beta	86	5.8 pCi/g	4.6 pCi/g	15.0 pCi/g	21 pCi/g

The Livermore site and Site 300 data were compared using the Wilcoxon nonparametric test, with the result that the data from Site 300 are statistically significantly different than the data for the Livermore site. In addition, the data support lower estimates of background for both the Livermore site and Site 300 than were calculated in 1991, although the Site 300 background estimates are relatively closer to the 1991 estimates. The data from 1995 through 2006 were also evaluated for trends with time, but no trends were found.

Conclusions

Because LLNL has acquired significantly more data than it had in 1991 when the initial determination of gross alpha and gross beta were made, it is recommended that LLNL use the background values presented in Table 4, which identifies that separate background values be used as screening limits for the Livermore site and for Site 300. It is also recommended that a slightly lower value than the calculated 95th UCL of the 95th percentile be used as a screening limit for gross alpha at Site 300 because the calculated 95th UCL of the 95th percentile was only represented by one value in the ranked data sets.

This determination of background is consistent with guidance provided in the *Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM)*, which states: “The *background reference area* is a geographical area from which representative reference measurements are performed for comparison with measurements performed in specific survey units. The background reference area is defined as an area that has similar physical, chemical, radiological, and biological characteristics as the survey unit(s) being investigated but has not been contaminated by site activities (*i.e.*, non-impacted).” (U.S. EPA, 2000, p 2-6; see also pp. 4-13, *et seq.*). The samples used in this background determination are from areas of similar characteristics that have not been contaminated by site activities.

Table 4. Recommended screening limits for gross alpha and gross beta based on background values for soil at the Livermore site and Site 300.

	Recommended screening limit
Livermore site	
Gross alpha	6.5 pCi/g
Gross beta	11 pCi/g
Site 300	
Gross alpha	11 pCi/g
Gross beta	21 pCi/g

References

U.S. Environmental Protection Agency (EPA) (1989), *Statistical Analysis of Ground-water Monitoring Data at RCRA Facilities*, Interim Final Guidance. Washington, DC, Office of Solid Waste.

U.S. Environmental Protection Agency (EPA) (2000), *Multi-Agency Radiation Survey and Site Investigation Manual*, Washington, DC, EPA 402-R-97-016, Rev. 1, U. S. Nuclear Regulatory Commission, NUREG-1575, Rev. 1, U. S. Department of Energy, DOE/EH-0624, Rev. 1.

U.S. Environmental Protection Agency (EPA) (2007), *ProUCL Version 4.0 Technical Guide*, Washington, DC, Office of Research and Development, EPA/600/R-07/041.

location identifier	depth	sampled	description	<	result	units
GROSS ALPHA						
SIB-WPA-135	5.5	6/7/90	Gross alpha		0.7	pCi/g
SIB-WPA-135	10.5	6/7/90	Gross alpha		0.7	pCi/g
SIB-WPA-136	10.5	6/8/90	Gross alpha		0.7	pCi/g
SIB-WPA-138	10.5	6/8/90	Gross alpha		0.7	pCi/g
B-SAS-011	0.5	2/7/89	Gross alpha	<	1	pCi/g
SAP-001	0.5	2/7/89	Gross alpha	<	1	pCi/g
SIB-321-001	6	5/30/89	Gross alpha		1	pCi/g
SIB-321-001	16	5/30/89	Gross alpha		1	pCi/g
SIB-WPA-138	5.5	6/8/90	Gross alpha		1	pCi/g
U241-021	10.5	5/30/89	Gross alpha	<	1	pCi/g
SIB-WPA-134	5.3	6/7/90	Gross alpha		1.1	pCi/g
SIB-WPA-134	10.3	6/7/90	Gross alpha		1.1	pCi/g
SIB-WPA-137	10.5	6/8/90	Gross alpha		1.2	pCi/g
SIB-WPA-136	5.5	6/8/90	Gross alpha		1.3	pCi/g
SIB-WPA-137	5.3	6/8/90	Gross alpha		1.5	pCi/g
B-593	5.5	1/27/89	Gross alpha	<	2	pCi/g
B-SAS-011	0.5	2/7/89	Gross alpha	<	2	pCi/g
SIB-321-002	10.8	5/31/89	Gross alpha	<	2	pCi/g
SIB-514-005	6.3	6/15/89	Gross alpha	<	2	pCi/g
SIB-514-005	10.5	6/15/89	Gross alpha	<	2	pCi/g
SIB-514-005	15.5	6/15/89	Gross alpha		2	pCi/g
SIB-CR-022	10.5	2/13/90	Gross alpha		2	pCi/g
SIB-CR-026	5.5	2/13/90	Gross alpha		2	pCi/g
SIB-ETS-003	10.3	5/8/89	Gross alpha	<	2	pCi/g
SSD-011	0.5	2/15/89	Gross alpha		2	pCi/g
SSD-014	0.5	2/15/89	Gross alpha	<	2	pCi/g
U161-UPL-NW1	2	11/8/89	Gross alpha		2	pCi/g
U401-ES123	1	4/3/89	Gross alpha	<	2	pCi/g
SAP-001	0.5	2/7/89	Gross alpha	<	3	pCi/g
SAP-001	0.5	2/7/89	Gross alpha	<	3	pCi/g
SIB-321-001	11	5/30/89	Gross alpha		3	pCi/g
SIB-321-002	5.8	5/31/89	Gross alpha		3	pCi/g
SIB-514-002	6.3	6/7/89	Gross alpha	<	3	pCi/g
SIB-CR-024	5.5	2/13/90	Gross alpha		3	pCi/g
SIB-CR-027	9.5	2/13/90	Gross alpha		3	pCi/g
SIB-WPA-001	9.8	12/22/89	Gross alpha		3	pCi/g
SSD-001	0.5	2/7/89	Gross alpha	<	3	pCi/g
SSD-008	0.5	2/15/89	Gross alpha	<	3	pCi/g
SSD-009	0.5	2/15/89	Gross alpha	<	3	pCi/g
SSD-010	0.5	2/15/89	Gross alpha	<	3	pCi/g
SSS-008	0.5	4/12/89	Gross alpha	<	3	pCi/g
SSS-AM-004	4	4/17/91	Gross alpha		3	pCi/g
U161-UPL-NW1	3	11/8/89	Gross alpha	<	3	pCi/g
U241-021	15.8	5/30/89	Gross alpha	<	3	pCi/g
406D-003	0	10/22/90	Gross alpha		4	pCi/g
B-560	7.5	1/26/89	Gross alpha		4	pCi/g

location identifier	depth	sampled	description	<	result	units
B-561	7.3	2/14/89	Gross alpha	<	4	pCi/g
B-594	11	2/17/89	Gross alpha	<	4	pCi/g
SIB-ETS-004	10.8	5/10/89	Gross alpha	<	4	pCi/g
SIB-WPA-001	4.8	12/22/89	Gross alpha		4	pCi/g
SIB-WPA-014	9.5	12/22/89	Gross alpha		4	pCi/g
SSD-012	0.5	2/15/89	Gross alpha	<	4	pCi/g
SSS-002	0.5	4/12/89	Gross alpha	<	4	pCi/g
U322-R1U1-S	10.1	11/7/89	Gross alpha		4	pCi/g
406-ES-04	0	5/23/91	Gross alpha		5	pCi/g
833-07	10.5	1/16/91	Gross alpha		5	pCi/g
B-464	11.8	9/20/88	Gross alpha		5	pCi/g
B-484	11.8	9/20/88	Gross alpha		5	pCi/g
B-502	7	10/17/88	Gross alpha	<	5	pCi/g
B-594	4.5	2/17/89	Gross alpha	<	5	pCi/g
SIB-514-002	10.5	6/7/89	Gross alpha	<	5	pCi/g
SIB-CR-027	5.5	2/13/90	Gross alpha		5	pCi/g
SIB-CR-047	5.5	3/1/90	Gross alpha		5	pCi/g
SSS-010	0.5	4/12/89	Gross alpha		5	pCi/g
TFA-RB-B2	0	12/22/89	Gross alpha		5	pCi/g
TCO1	0.5	5/4/91	Gross alpha	<	5.4	pCi/g
TCO2	0.5	5/4/91	Gross alpha	<	5.4	pCi/g
TCO3	0.7	5/4/91	Gross alpha	<	5.4	pCi/g
241B-001	0	5/29/91	Gross alpha		6	pCi/g
406D-001	0	10/22/90	Gross alpha		6	pCi/g
833-08	11.5	1/23/91	Gross alpha		6	pCi/g
B-502	19.3	10/18/88	Gross alpha	<	6	pCi/g
B-570	14.3	5/22/89	Gross alpha	<	6	pCi/g
SIB-321-002	15.3	5/31/89	Gross alpha		6	pCi/g
SIB-CR-024	9.5	2/13/90	Gross alpha		6	pCi/g
SIB-ETS-002	11.3	5/8/89	Gross alpha		6	pCi/g
SIB-WPA-002	4.5	12/22/89	Gross alpha		6	pCi/g
SIB-WPA-014	4.5	12/22/89	Gross alpha		6	pCi/g
SSD-013	0.5	2/15/89	Gross alpha		6	pCi/g
SSS-007	0.5	4/12/89	Gross alpha	<	6	pCi/g
SSS-DRB-006	0	4/1/91	Gross alpha		6	pCi/g
TFA-RB-B1	0.3	12/22/89	Gross alpha		6	pCi/g
TFA-RB-B5	0.3	12/22/89	Gross alpha		6	pCi/g
406D-002	0	10/22/90	Gross alpha		7	pCi/g
SIB-WPA-002	9.5	12/22/89	Gross alpha		7	pCi/g
SIB-WPA-003	4.5	12/22/89	Gross alpha		7	pCi/g
SIB-WPA-003	9.5	12/22/89	Gross alpha		7	pCi/g
SIB-WPA-010	5	12/21/89	Gross alpha		7	pCi/g
SIB-WPA-012	4.5	12/21/89	Gross alpha		7	pCi/g
SIB-WPA-015	4.5	12/22/89	Gross alpha		7	pCi/g
SIB-WPA-015	9.5	12/22/89	Gross alpha		7	pCi/g
SIB-WPA-015	9.8	12/22/89	Gross alpha		7	pCi/g
SSS-005	0.5	4/12/89	Gross alpha		7	pCi/g
SSS-009	0.5	4/12/89	Gross alpha		7	pCi/g

location identifier	depth	sampled	description	<	result	units
SSS-DRB-008	0	4/1/91	Gross alpha		7	pCi/g
TFA-RB-B2	1	12/15/88	Gross alpha		7	pCi/g
TFA-RB-B7	0.3	12/15/88	Gross alpha		7	pCi/g
U161-BAC-NW1	1	11/8/89	Gross alpha		7	pCi/g
B-461	10.5	8/9/88	Gross alpha		8	pCi/g
B-561	11.5	2/14/89	Gross alpha	<	8	pCi/g
B-607	5	9/1/89	Gross alpha		8	pCi/g
SIB-624-001	2.5	6/26/91	Gross alpha		8	pCi/g
SIB-624-001	19.7	6/27/91	Gross alpha		8	pCi/g
SIB-CR-022	5.5	2/13/90	Gross alpha		8	pCi/g
SIB-CR-026	9.5	2/13/90	Gross alpha		8	pCi/g
SIB-WPA-002	9.8	12/22/89	Gross alpha		8	pCi/g
SIB-WPA-006	4.8	12/21/89	Gross alpha		8	pCi/g
SIB-WPA-006	10.3	12/21/89	Gross alpha		8	pCi/g
SIB-WPA-012	9.5	12/21/89	Gross alpha		8	pCi/g
SIB-WPA-014	4.8	12/22/89	Gross alpha		8	pCi/g
SSS-DRB-007	0	4/1/91	Gross alpha		8	pCi/g
833-06	5	1/10/91	Gross alpha		9	pCi/g
833-07	6	1/16/91	Gross alpha		9	pCi/g
833-09	20	1/31/91	Gross alpha		9	pCi/g
B-565	14.5	4/3/89	Gross alpha	<	9	pCi/g
SIB-CR-047	9.5	3/1/90	Gross alpha		9	pCi/g
SIB-WPA-007	5.3	12/21/89	Gross alpha		9	pCi/g
SIB-WPA-014	9.5	12/22/89	Gross alpha		9	pCi/g
SSS-003	0.5	4/12/89	Gross alpha	<	9	pCi/g
SSS-DRB-001	0	4/1/91	Gross alpha		9	pCi/g
SSS-DRB-003	0	4/1/91	Gross alpha		9	pCi/g
TFA-RB-B1	0.3	12/15/88	Gross alpha		9	pCi/g
TFA-RB-B3	0.3	12/22/89	Gross alpha		9	pCi/g
TFA-RB-B4	1	12/15/88	Gross alpha		9	pCi/g
TFA-RB-B8	1	12/15/88	Gross alpha		9	pCi/g
U241-021	5.3	5/30/89	Gross alpha	<	9	pCi/g
U321-RT-06	0	6/23/89	Gross alpha		9	pCi/g
406-ES-03	0	5/23/91	Gross alpha		10	pCi/g
833-11	10.5	2/5/91	Gross alpha		10	pCi/g
835-01	11	1/29/91	Gross alpha		10	pCi/g
B-593	11	1/27/89	Gross alpha	<	10	pCi/g
B-611	10.8	3/26/90	Gross alpha		10	pCi/g
B-SAS-011	0.5	2/7/89	Gross alpha	<	10	pCi/g
SIB-CR-060	5.5	2/22/90	Gross alpha		10	pCi/g
SIB-SD-001	0.8	4/3/91	Gross alpha		10	pCi/g
SIB-SD-005	0.8	4/3/91	Gross alpha		10	pCi/g
SIB-WPA-004	4.5	12/22/89	Gross alpha		10	pCi/g
SIB-WPA-010	9.5	12/21/89	Gross alpha		10	pCi/g
SSS-DRB-002	0	4/1/91	Gross alpha		10	pCi/g
SSS-DRB-004	0	4/1/91	Gross alpha		10	pCi/g
SSS-DRB-005	0	4/1/91	Gross alpha		10	pCi/g
TFA-RB-B7	0.3	12/22/89	Gross alpha		10	pCi/g

location identifier	depth	sampled	description	<	result	units
TFA-RB-B8	1	12/22/89	Gross alpha		10	pCi/g
U161-UPL-NW1	1	11/8/89	Gross alpha		10	pCi/g
TCO2	3.8	5/4/91	Gross alpha		10.9	pCi/g
835-02	10.8	1/30/91	Gross alpha		11	pCi/g
SIB-CR-060	9.5	2/22/90	Gross alpha		11	pCi/g
SIB-WPA-011	9.8	12/21/89	Gross alpha		11	pCi/g
SIB-WPA-013	4.8	12/22/89	Gross alpha		11	pCi/g
SSS-004	0.5	4/12/89	Gross alpha	<	11	pCi/g
TFA-RB-B4	1	12/22/89	Gross alpha		11	pCi/g
833-09	11.3	1/31/91	Gross alpha		12	pCi/g
SIB-CR-066	9.5	2/22/90	Gross alpha		12	pCi/g
SIB-SD-003	1	4/4/91	Gross alpha		12	pCi/g
TFA-RB-B5	0.3	12/15/88	Gross alpha		12	pCi/g
TFA-RB-B6	1	12/15/88	Gross alpha		12	pCi/g
TCO2	3.7	5/4/91	Gross alpha		12.2	pCi/g
SIB-CR-029	5	2/14/90	Gross alpha		13	pCi/g
SIB-CR-029	10	1/12/90	Gross alpha		13	pCi/g
SIB-SD-002	0.8	4/3/91	Gross alpha		13	pCi/g
SIB-WPA-004	9.5	12/22/89	Gross alpha		13	pCi/g
SIB-WPA-005	5	12/21/89	Gross alpha		13	pCi/g
SIB-WPA-005	9.5	12/21/89	Gross alpha		13	pCi/g
SIB-WPA-013	9.5	12/22/89	Gross alpha		13	pCi/g
SSS-006	0.5	4/12/89	Gross alpha	<	13	pCi/g
B-562	12.5	2/27/89	Gross alpha	<	14	pCi/g
SSS-001	0.5	4/12/89	Gross alpha	<	14	pCi/g
833-06	10	1/10/91	Gross alpha		15	pCi/g
SIB-624-001	10.5	6/27/91	Gross alpha		15	pCi/g
SIB-624-001	15	6/27/91	Gross alpha		15	pCi/g
SIB-SD-004	0.8	4/3/91	Gross alpha		15	pCi/g
TFA-RB-B3	0.3	12/15/88	Gross alpha		15	pCi/g
TFA-RB-B6	1	12/22/89	Gross alpha		15	pCi/g
U321-RT-05	0	6/23/89	Gross alpha		15	pCi/g
SIB-WPA-011	5.3	12/21/89	Gross alpha		16	pCi/g
833-08	6	1/22/91	Gross alpha		17	pCi/g
SIB-SD-006	0.8	4/3/91	Gross alpha		17	pCi/g
SIB-WPA-007	9.8	12/21/89	Gross alpha		20	pCi/g
SIB-CR-066	5.5	2/22/90	Gross alpha		22	pCi/g
SIB-CR-063	5.5	2/22/90	Gross alpha		26	pCi/g
SIB-CR-063	9.5	2/22/90	Gross alpha		27	pCi/g
					N	181
					mean	7.43
					stdev	4.72
					mean plus 2 SD	16.9
					95%ile	15
					95th utl rank	177.3
					95th ucl of 95%ile	17.0

location identifier	depth	sampled	description	<	result	units
GROSS BETA						
SIB-WPA-135	10.5	6/7/90	Gross beta		3.5	pCi/g
SAP-001	0.5	2/7/89	Gross beta	<	4	pCi/g
SAP-001	0.5	2/7/89	Gross beta		4	pCi/g
SIB-CR-026	5.5	2/13/90	Gross beta		4	pCi/g
SIB-CR-027	5.5	2/13/90	Gross beta		4	pCi/g
U161-UPL-NW1	3	11/8/89	Gross beta		4	pCi/g
B-594	4.5	2/17/89	Gross beta		5	pCi/g
SIB-CR-027	9.5	2/13/90	Gross beta		5	pCi/g
SSD-009	0.5	2/15/89	Gross beta		5	pCi/g
SIB-WPA-137	10.5	6/8/90	Gross beta		5.6	pCi/g
SIB-WPA-134	5.3	6/7/90	Gross beta		5.9	pCi/g
B-SAS-011	0.5	2/7/89	Gross beta		6	pCi/g
SIB-321-002	10.8	5/31/89	Gross beta		6	pCi/g
SIB-CR-026	9.5	2/13/90	Gross beta		6	pCi/g
SIB-WPA-135	5.5	6/7/90	Gross beta		6.1	pCi/g
SIB-WPA-138	10.5	6/8/90	Gross beta		6.4	pCi/g
SIB-WPA-136	10.5	6/8/90	Gross beta		6.9	pCi/g
SIB-CR-024	5.5	2/13/90	Gross beta		7	pCi/g
SIB-CR-024	9.5	2/13/90	Gross beta		7	pCi/g
SIB-WPA-015	9.5	12/22/89	Gross beta		7	pCi/g
SIB-WPA-134	10.3	6/7/90	Gross beta		7	pCi/g
SSD-014	0.5	2/15/89	Gross beta		7	pCi/g
SSS-008	0.5	4/12/89	Gross beta		7	pCi/g
SIB-WPA-138	5.5	6/8/90	Gross beta		7.2	pCi/g
SIB-WPA-136	5.5	6/8/90	Gross beta		7.5	pCi/g
SIB-WPA-137	5.3	6/8/90	Gross beta		7.6	pCi/g
833-07	10.5	1/16/91	Gross beta		8	pCi/g
SIB-CR-022	5.5	2/13/90	Gross beta		8	pCi/g
SIB-WPA-015	9.8	12/22/89	Gross beta		8	pCi/g
B-SAS-011	0.5	2/7/89	Gross beta		9	pCi/g
SIB-CR-022	10.5	2/13/90	Gross beta		9	pCi/g
SSD-012	0.5	2/15/89	Gross beta	<	9	pCi/g
SSS-DRB-003	0	4/1/91	Gross beta		9	pCi/g
B-562	12.5	2/27/89	Gross beta	<	10	pCi/g
B-593	5.5	1/27/89	Gross beta		10	pCi/g
B-594	11	2/17/89	Gross beta		10	pCi/g
SIB-WPA-006	10.3	12/21/89	Gross beta		10	pCi/g
SSS-DRB-004	0	4/1/91	Gross beta		10	pCi/g
B-593	11	1/27/89	Gross beta		11	pCi/g
SIB-321-002	15.3	5/31/89	Gross beta		11	pCi/g
SIB-514-002	6.3	6/7/89	Gross beta	<	11	pCi/g
SIB-WPA-001	9.8	12/22/89	Gross beta		11	pCi/g
SIB-WPA-002	9.5	12/22/89	Gross beta		11	pCi/g
SIB-WPA-012	9.5	12/21/89	Gross beta		11	pCi/g
SIB-WPA-014	9.5	12/22/89	Gross beta		11	pCi/g

location identifier	depth	sampled	description	<	result	units
SSS-AM-004	4	4/17/91	Gross beta		11	pCi/g
SSS-DRB-006	0	4/1/91	Gross beta		11	pCi/g
SSS-DRB-008	0	4/1/91	Gross beta		11	pCi/g
833-07	6	1/16/91	Gross beta		12	pCi/g
SIB-CR-047	5.5	3/1/90	Gross beta		12	pCi/g
SIB-ETS-004	10.8	5/10/89	Gross beta		12	pCi/g
SIB-WPA-001	4.8	12/22/89	Gross beta		12	pCi/g
SIB-WPA-004	4.5	12/22/89	Gross beta		12	pCi/g
SIB-WPA-015	4.5	12/22/89	Gross beta		12	pCi/g
SSS-DRB-001	0	4/1/91	Gross beta		12	pCi/g
SSS-DRB-007	0	4/1/91	Gross beta		12	pCi/g
241B-001	0	5/29/91	Gross beta		13	pCi/g
833-08	6	1/22/91	Gross beta		13	pCi/g
833-09	20	1/31/91	Gross beta		13	pCi/g
B-461	10.5	8/9/88	Gross beta		13	pCi/g
B-560	7.5	1/26/89	Gross beta		13	pCi/g
SIB-CR-047	9.5	3/1/90	Gross beta		13	pCi/g
SIB-WPA-002	4.5	12/22/89	Gross beta		13	pCi/g
SIB-WPA-002	9.8	12/22/89	Gross beta		13	pCi/g
SIB-WPA-003	4.5	12/22/89	Gross beta		13	pCi/g
SIB-WPA-010	9.5	12/21/89	Gross beta		13	pCi/g
SIB-WPA-014	4.5	12/22/89	Gross beta		13	pCi/g
SIB-WPA-014	9.5	12/22/89	Gross beta		13	pCi/g
SSS-DRB-002	0	4/1/91	Gross beta		13	pCi/g
SSS-DRB-005	0	4/1/91	Gross beta		13	pCi/g
U322-R1U1-S	10.1	11/7/89	Gross beta		13	pCi/g
406D-002	0	10/22/90	Gross beta		14	pCi/g
406-ES-04	0	5/23/91	Gross beta		14	pCi/g
SIB-514-005	6.3	6/15/89	Gross beta		14	pCi/g
SIB-514-005	10.5	6/15/89	Gross beta		14	pCi/g
SIB-624-001	10.5	6/27/91	Gross beta		14	pCi/g
SIB-SD-001	0.8	4/3/91	Gross beta		14	pCi/g
SIB-SD-006	0.8	4/3/91	Gross beta		14	pCi/g
SIB-WPA-003	9.5	12/22/89	Gross beta		14	pCi/g
SIB-WPA-004	9.5	12/22/89	Gross beta		14	pCi/g
SIB-WPA-005	5	12/21/89	Gross beta		14	pCi/g
SIB-WPA-006	4.8	12/21/89	Gross beta		14	pCi/g
SIB-WPA-007	5.3	12/21/89	Gross beta		14	pCi/g
SIB-WPA-012	4.5	12/21/89	Gross beta		14	pCi/g
SIB-WPA-013	4.8	12/22/89	Gross beta		14	pCi/g
SSD-011	0.5	2/15/89	Gross beta		14	pCi/g
U321-RT-06	0	6/23/89	Gross beta		14	pCi/g
406-ES-03	0	5/23/91	Gross beta		15	pCi/g
833-06	10	1/10/91	Gross beta		15	pCi/g
833-08	11.5	1/23/91	Gross beta		15	pCi/g
833-11	10.5	2/5/91	Gross beta		15	pCi/g
B-464	11.8	9/20/88	Gross beta		15	pCi/g
B-484	11.8	9/20/88	Gross beta		15	pCi/g

location identifier	depth	sampled	description	<	result	units
SIB-321-001	6	5/30/89	Gross beta		15	pCi/g
SIB-514-002	10.5	6/7/89	Gross beta		15	pCi/g
SIB-CR-029	10	1/12/90	Gross beta		15	pCi/g
SIB-CR-060	9.5	2/22/90	Gross beta		15	pCi/g
SIB-SD-002	0.8	4/3/91	Gross beta		15	pCi/g
SIB-SD-004	0.8	4/3/91	Gross beta		15	pCi/g
SIB-WPA-005	9.5	12/21/89	Gross beta		15	pCi/g
SIB-WPA-014	4.8	12/22/89	Gross beta		15	pCi/g
SSD-013	0.5	2/15/89	Gross beta		15	pCi/g
TFA-RB-B7	0.3	12/15/88	Gross beta		15	pCi/g
U241-021	15.8	5/30/89	Gross beta		15	pCi/g
406D-001	0	10/22/90	Gross beta		16	pCi/g
406D-003	0	10/22/90	Gross beta		16	pCi/g
833-09	11.3	1/31/91	Gross beta		16	pCi/g
B-607	5	9/1/89	Gross beta		16	pCi/g
SIB-514-005	15.5	6/15/89	Gross beta		16	pCi/g
SIB-CR-029	5	2/14/90	Gross beta		16	pCi/g
SIB-ETS-002	11.3	5/8/89	Gross beta		16	pCi/g
SIB-WPA-007	9.8	12/21/89	Gross beta		16	pCi/g
SIB-WPA-010	5	12/21/89	Gross beta		16	pCi/g
SIB-WPA-013	9.5	12/22/89	Gross beta		16	pCi/g
TFA-RB-B5	0.3	12/22/89	Gross beta		16	pCi/g
TFA-RB-B6	1	12/15/88	Gross beta		16	pCi/g
TFA-RB-B6	1	12/22/89	Gross beta		16	pCi/g
TFA-RB-B8	1	12/15/88	Gross beta		16	pCi/g
U161-BAC-NW1	1	11/8/89	Gross beta		16	pCi/g
835-01	11	1/29/91	Gross beta		17	pCi/g
SIB-321-002	5.8	5/31/89	Gross beta		17	pCi/g
SIB-624-001	15	6/27/91	Gross beta		17	pCi/g
SIB-CR-066	5.5	2/22/90	Gross beta		17	pCi/g
SIB-CR-066	9.5	2/22/90	Gross beta		17	pCi/g
SIB-SD-005	0.8	4/3/91	Gross beta		17	pCi/g
SSD-008	0.5	2/15/89	Gross beta		17	pCi/g
SSS-002	0.5	4/12/89	Gross beta		17	pCi/g
TFA-RB-B2	0	12/22/89	Gross beta		17	pCi/g
TFA-RB-B7	0.3	12/22/89	Gross beta		17	pCi/g
U401-ES123	1	4/3/89	Gross beta		17	pCi/g
B-502	7	10/17/88	Gross beta		18	pCi/g
SIB-CR-063	9.5	2/22/90	Gross beta		18	pCi/g
SSD-001	0.5	2/7/89	Gross beta		18	pCi/g
SSS-010	0.5	4/12/89	Gross beta		18	pCi/g
TFA-RB-B1	0.3	12/15/88	Gross beta		18	pCi/g
TFA-RB-B3	0.3	12/15/88	Gross beta		18	pCi/g
TFA-RB-B4	1	12/22/89	Gross beta		18	pCi/g
833-06	5	1/10/91	Gross beta		19	pCi/g
835-02	10.8	1/30/91	Gross beta		19	pCi/g
B-565	14.5	4/3/89	Gross beta		19	pCi/g
B-611	10.8	3/26/90	Gross beta		19	pCi/g

location identifier	depth	sampled	description	<	result	units
SIB-321-001	16	5/30/89	Gross beta		19	pCi/g
SIB-624-001	2.5	6/26/91	Gross beta		19	pCi/g
SIB-CR-060	5.5	2/22/90	Gross beta		19	pCi/g
SIB-SD-003	1	4/4/91	Gross beta		19	pCi/g
SIB-WPA-011	5.3	12/21/89	Gross beta		19	pCi/g
SSS-003	0.5	4/12/89	Gross beta		19	pCi/g
SSS-004	0.5	4/12/89	Gross beta		19	pCi/g
TCO1	0.5	5/4/91	Gross beta	<	19	pCi/g
TCO2	0.5	5/4/91	Gross beta	<	19	pCi/g
TCO2	3.7	5/4/91	Gross beta	<	19	pCi/g
TCO2	3.8	5/4/91	Gross beta	<	19	pCi/g
TFA-RB-B5	0.3	12/15/88	Gross beta		19	pCi/g
TFA-RB-B8	1	12/22/89	Gross beta		19	pCi/g
U161-UPL-NW1	1	11/8/89	Gross beta		19	pCi/g
U241-021	5.3	5/30/89	Gross beta		19	pCi/g
B-561	7.3	2/14/89	Gross beta		20	pCi/g
SIB-624-001	19.7	6/27/91	Gross beta		20	pCi/g
SIB-WPA-011	9.8	12/21/89	Gross beta		20	pCi/g
SSD-010	0.5	2/15/89	Gross beta		20	pCi/g
SSS-006	0.5	4/12/89	Gross beta		20	pCi/g
TFA-RB-B1	0.3	12/22/89	Gross beta		20	pCi/g
U161-UPL-NW1	2	11/8/89	Gross beta		20	pCi/g
B-561	11.5	2/14/89	Gross beta		21	pCi/g
SIB-CR-063	5.5	2/22/90	Gross beta		21	pCi/g
SIB-ETS-003	10.3	5/8/89	Gross beta		21	pCi/g
SSS-001	0.5	4/12/89	Gross beta		21	pCi/g
TFA-RB-B2	1	12/15/88	Gross beta		21	pCi/g
B-502	19.3	10/18/88	Gross beta		22	pCi/g
B-SAS-011	0.5	2/7/89	Gross beta		22	pCi/g
SIB-321-001	11	5/30/89	Gross beta		22	pCi/g
SSS-005	0.5	4/12/89	Gross beta		22	pCi/g
TCO3	0.7	5/4/91	Gross beta		22	pCi/g
TFA-RB-B3	0.3	12/22/89	Gross beta		22	pCi/g
TFA-RB-B4	1	12/15/88	Gross beta		22	pCi/g
U321-RT-05	0	6/23/89	Gross beta		22	pCi/g
B-570	14.3	5/22/89	Gross beta		23	pCi/g
SSS-007	0.5	4/12/89	Gross beta		25	pCi/g
SSS-009	0.5	4/12/89	Gross beta		26	pCi/g
U241-021	10.5	5/30/89	Gross beta		27	pCi/g
SAP-001	0.5	2/7/89	Gross beta		32	pCi/g
					N	181
					mean	14.4
					stdev	5.15
					mean plus 2 SD	24.7
					95%ile	22
					95th utl rank	177.3
					95th ucl of 95%ile	22.0

location identifier	depth	sampled	description	< value	units
LIVERMORE SITE GROSS ALPHA					
PC-B292-001	2	7/21/97	Gross alpha	< -0.93	pCi/g
PC-B315-001	0	4/23/96	Gross alpha	< -0.486	pCi/g
PC-B232-002	1.5	3/29/96	Gross alpha	< 0.0005	pCi/g
PC-B481-004	2	6/10/96	Gross alpha	< 0.0816	pCi/g
PC-B171-002	3	4/26/05	Gross alpha	< 0.14	pCi/g
PC-B321-006	1	1/30/97	Gross alpha	< 0.14	pCi/g
PC-NIF-001	12	8/26/96	Gross alpha	< 0.288	pCi/g
PC-T2475-001	3	4/15/02	Gross alpha	< 0.29	pCi/g
PC-B321-035	1	11/4/97	Gross alpha	< 0.3	pCi/g
PC-B153-008	4	8/24/05	Gross alpha	< 0.33	pCi/g
PC-B292-002	1	7/21/97	Gross alpha	< 0.34	pCi/g
PC-B151-002	1	10/13/04	Gross alpha	< 0.44	pCi/g
PC-B222-013	2	9/20/04	Gross alpha	< 0.47	pCi/g
PC-B222-015	2	9/20/04	Gross alpha	< 0.47	pCi/g
PC-B222-009	2	9/20/04	Gross alpha	< 0.51	pCi/g
PC-B512-005	4	7/24/03	Gross alpha	< 0.52	pCi/g
PC-B131-011	1	12/1/03	Gross alpha	< 0.54	pCi/g
PC-B222-004	1.5	12/22/03	Gross alpha	< 0.58	pCi/g
PC-B412-002	0.5	9/6/05	Gross alpha	< 0.66	pCi/g
PC-B325-011	5	11/9/04	Gross alpha	< 0.69	pCi/g
PC-B445-005	1	10/9/06	Gross alpha	< 0.69	pCi/g
PC-B222-014	2	9/20/04	Gross alpha	< 0.74	pCi/g
PC-B321-017	6	4/19/05	Gross alpha	< 0.76	pCi/g
PC-B332-049	0	9/9/99	Gross alpha	< 0.79	pCi/g
PC-B445-007	1	10/9/06	Gross alpha	< 0.8	pCi/g
PC-B623-002	14	5/1/06	Gross alpha	< 0.81	pCi/g
PC-B177-001	1	3/9/98	Gross alpha	< 0.83	pCi/g
PC-B174-001	1.5	2/18/97	Gross alpha	< 0.85	pCi/g
PC-T6498-010	3	11/10/05	Gross alpha	< 0.86	pCi/g
PC-T3520-002	0	1/3/00	Gross alpha	< 0.89	pCi/g
PC-B321C-019	25	10/13/05	Gross alpha	< 0.92	pCi/g
PC-B445-002	1	10/9/06	Gross alpha	< 0.95	pCi/g
PC-B212-016	4	1/24/06	Gross alpha	< 1	pCi/g
PC-B314-001	0.5	4/1/99	Gross alpha	< 1	pCi/g
PC-B551-004	1	7/16/99	Gross alpha	< 1	pCi/g
PC-NIF-004	12	8/26/96	Gross alpha	< 1.05	pCi/g
PC-ASW-002	14	1/22/04	Gross alpha	< 1.1	pCi/g
PC-B222-008	1.5	12/22/03	Gross alpha	< 1.1	pCi/g
PC-B321C-020	25	10/13/05	Gross alpha	< 1.1	pCi/g
PC-B321C-021	0	10/20/05	Gross alpha	< 1.1	pCi/g
PC-B445-004	1	10/9/06	Gross alpha	< 1.1	pCi/g
PC-T1478-001	0.5	7/22/03	Gross alpha	< 1.1	pCi/g
PC-B321-001	1	8/6/96	Gross alpha	< 1.15	pCi/g
PC-B171-004	1	9/19/05	Gross alpha	< 1.2	pCi/g
PC-B321-021	2	9/20/05	Gross alpha	< 1.2	pCi/g
PC-B424-005	8	4/18/00	Gross alpha	< 1.2	pCi/g
PC-B431-016	1.5	7/6/05	Gross alpha	< 1.2	pCi/g

location identifier	depth	sampled	description	< value	units
PC-B611-002	0.5	7/26/00	Gross alpha	< 1.2	pCi/g
PC-NIF-003	12	8/26/96	Gross alpha	< 1.2	pCi/g
PC-T1888-001	1.5	10/1/01	Gross alpha	< 1.2	pCi/g
PC-NIF-010	12	8/26/96	Gross alpha	< 1.24	pCi/g
PC-B212-015	4	12/16/05	Gross alpha	< 1.3	pCi/g
PC-B431-012	1	1/22/01	Gross alpha	< 1.3	pCi/g
PC-B445-003	1	10/9/06	Gross alpha	< 1.3	pCi/g
PC-B445-006	1	10/9/06	Gross alpha	< 1.3	pCi/g
PC-B125-001	0	1/13/99	Gross alpha	< 1.4	pCi/g
PC-B194-001	0	4/10/95	Gross alpha	< 1.4	pCi/g
PC-B212-013	0	12/2/97	Gross alpha	< 1.4	pCi/g
PC-B232-004	5	6/28/05	Gross alpha	< 1.4	pCi/g
PC-B232-008	1	10/5/05	Gross alpha	< 1.4	pCi/g
PC-B623-001	7	5/1/06	Gross alpha	< 1.4	pCi/g
PC-T6498-002	0.5	6/21/04	Gross alpha	< 1.4	pCi/g
PC-T6498-007	3	11/10/05	Gross alpha	< 1.4	pCi/g
PC-TFE-007	3	7/7/05	Gross alpha	< 1.4	pCi/g
PC-TF518-002	0	2/15/96	Gross alpha	< 1.44	pCi/g
PC-B232-003	1.5	3/29/96	Gross alpha	< 1.48	pCi/g
PC-B212-014	4	11/28/05	Gross alpha	< 1.5	pCi/g
PC-B212-017	3	3/1/06	Gross alpha	< 1.5	pCi/g
PC-B231-026	3	12/17/04	Gross alpha	< 1.5	pCi/g
PC-B321-020	5	9/20/05	Gross alpha	< 1.5	pCi/g
PC-B325-010	5	11/9/04	Gross alpha	< 1.5	pCi/g
PC-B368-001	3	2/13/04	Gross alpha	< 1.5	pCi/g
PC-B431-008	2	4/26/95	Gross alpha	< 1.5	pCi/g
PC-B514-007	2	2/7/06	Gross alpha	< 1.5	pCi/g
PC-B551-005	1	7/16/99	Gross alpha	< 1.5	pCi/g
PC-DWTF-116	8	7/20/95	Gross alpha	< 1.5	pCi/g
PC-T1739-001	3	3/30/06	Gross alpha	< 1.5	pCi/g
PC-NIF-008	12	8/26/96	Gross alpha	< 1.51	pCi/g
PC-B216-001	0	3/8/96	Gross alpha	< 1.54	pCi/g
PC-NIF-009	12	8/26/96	Gross alpha	< 1.57	pCi/g
PC-B131-013	3	5/26/06	Gross alpha	< 1.6	pCi/g
PC-B171-001	3	4/26/05	Gross alpha	< 1.6	pCi/g
PC-B171-005	1	9/19/05	Gross alpha	< 1.6	pCi/g
PC-B171-006	1	9/19/05	Gross alpha	< 1.6	pCi/g
PC-B178-001	3	6/12/06	Gross alpha	< 1.6	pCi/g
PC-B198-001	1	2/11/97	Gross alpha	< 1.6	pCi/g
PC-B254-001	1	2/27/95	Gross alpha	< 1.6	pCi/g
PC-B254-003	1	2/27/95	Gross alpha	< 1.6	pCi/g
PC-B404-003	2	2/16/95	Gross alpha	< 1.6	pCi/g
PC-B443-001	0	7/10/97	Gross alpha	< 1.6	pCi/g
PC-B445-001	0	3/25/98	Gross alpha	< 1.6	pCi/g
PC-B511-008	4	2/21/06	Gross alpha	< 1.6	pCi/g
PC-DWTF-126	1	7/20/95	Gross alpha	< 1.6	pCi/g
PC-DWTF-127	1	7/20/95	Gross alpha	< 1.6	pCi/g
PC-DWTF-128	0	7/20/95	Gross alpha	< 1.6	pCi/g
PC-ERD-002	0	8/7/95	Gross alpha	< 1.6	pCi/g

location identifier	depth	sampled	description	< value	units
PC-T1888-001	1.5	10/1/01	Gross alpha	< 1.6	pCi/g
PC-B231-022	2	5/14/96	Gross alpha	1.64	pCi/g
PC-B218-001	0	11/22/96	Gross alpha	< 1.65	pCi/g
PC-ASW-002	7	1/22/04	Gross alpha	< 1.7	pCi/g
PC-B132-034	2	5/29/97	Gross alpha	< 1.7	pCi/g
PC-B222-006	1.5	12/22/03	Gross alpha	< 1.7	pCi/g
PC-B222-011	2	9/20/04	Gross alpha	< 1.7	pCi/g
PC-B251-001	2	4/29/02	Gross alpha	1.7	pCi/g
PC-B254-002	1	2/27/95	Gross alpha	< 1.7	pCi/g
PC-B332-030	0	5/19/95	Gross alpha	< 1.7	pCi/g
PC-B404-004	2	2/16/95	Gross alpha	< 1.7	pCi/g
PC-B431-013	0.5	7/6/05	Gross alpha	< 1.7	pCi/g
PC-B512-006	4	2/21/06	Gross alpha	< 1.7	pCi/g
PC-B551-008	4	7/13/99	Gross alpha	1.7	pCi/g
PC-DWTF-120	10	7/20/95	Gross alpha	< 1.7	pCi/g
PC-TFC-001	0	5/23/95	Gross alpha	< 1.7	pCi/g
PC-NIF-013	12	8/26/96	Gross alpha	< 1.71	pCi/g
PC-B381-001	0	5/3/96	Gross alpha	< 1.77	pCi/g
PC-6425-011	0	4/26/95	Gross alpha	< 1.8	pCi/g
PC-B298-006	3	11/20/97	Gross alpha	1.8	pCi/g
PC-B323-005	0	7/10/97	Gross alpha	< 1.8	pCi/g
PC-B332-031	0	5/19/95	Gross alpha	1.8	pCi/g
PC-B361-014	1	2/24/97	Gross alpha	< 1.8	pCi/g
PC-B404-001	0.5	2/16/95	Gross alpha	1.8	pCi/g
PC-B419-004	4	2/21/06	Gross alpha	< 1.8	pCi/g
PC-B431-009	2	4/26/95	Gross alpha	< 1.8	pCi/g
PC-B514-004	4	8/11/04	Gross alpha	< 1.8	pCi/g
PC-B697-002	1	9/7/04	Gross alpha	< 1.8	pCi/g
PC-DWTF-117	10	7/20/95	Gross alpha	< 1.8	pCi/g
PC-B219-001	1	6/3/98	Gross alpha	1.9	pCi/g
PC-B231-011	0	6/22/95	Gross alpha	< 1.9	pCi/g
PC-B241-004	2	5/31/95	Gross alpha	1.9	pCi/g
PC-B298-003	3	11/20/97	Gross alpha	1.9	pCi/g
PC-B321-014	2	6/18/04	Gross alpha	< 1.9	pCi/g
PC-B332-025	2	5/15/95	Gross alpha	1.9	pCi/g
PC-B332-026	2	5/15/95	Gross alpha	< 1.9	pCi/g
PC-B431-010	0	7/10/97	Gross alpha	1.9	pCi/g
PC-B438-005	6	5/8/01	Gross alpha	1.9	pCi/g
PC-DWTF-115	5	7/20/95	Gross alpha	< 1.9	pCi/g
PC-DWTF-125	1	7/20/95	Gross alpha	< 1.9	pCi/g
PC-T2685-001	1.5	9/12/01	Gross alpha	1.9	pCi/g
PC-B231-021	2	5/14/96	Gross alpha	1.91	pCi/g
PC-T2775-001	0	3/20/96	Gross alpha	1.97	pCi/g
PC-B323-001	0	1/21/96	Gross alpha	1.98	pCi/g
PC-B132-035	1	7/1/97	Gross alpha	< 2	pCi/g
PC-B140-012	4	8/28/01	Gross alpha	2	pCi/g
PC-B141-002	4	4/26/95	Gross alpha	< 2	pCi/g
PC-B222-007	1.5	12/22/03	Gross alpha	< 2	pCi/g
PC-B232-006	1	10/5/05	Gross alpha	< 2	pCi/g

location identifier	depth	sampled	description	< value	units
PC-B255-001	0	8/31/99	Gross alpha		2 pCi/g
PC-B412-005	0.5	10/3/05	Gross alpha	<	2 pCi/g
PC-B451-001	6	1/27/98	Gross alpha		2 pCi/g
PC-B543-001	0	2/24/99	Gross alpha		2 pCi/g
PC-DWTF-120	10	7/20/95	Gross alpha		2 pCi/g
PC-NIF-012	12	8/26/96	Gross alpha	<	2 pCi/g
PC-B233-001	0	8/7/96	Gross alpha	<	2.02 pCi/g
PC-B117-004	1	7/26/00	Gross alpha		2.1 pCi/g
PC-B222-005	1.5	12/22/03	Gross alpha	<	2.1 pCi/g
PC-B231-021	0	11/14/95	Gross alpha	<	2.1 pCi/g
PC-B243-002	0	4/24/95	Gross alpha	<	2.1 pCi/g
PC-B298-005	3	11/20/97	Gross alpha		2.1 pCi/g
PC-B298-008	1	11/25/97	Gross alpha		2.1 pCi/g
PC-B514-005	3	7/7/05	Gross alpha	<	2.1 pCi/g
PC-B592-003	6	2/5/99	Gross alpha		2.1 pCi/g
PC-B622-002	7	11/20/06	Gross alpha	<	2.1 pCi/g
PC-NIF-104	6	2/12/97	Gross alpha		2.1 pCi/g
PC-4182-001	0	11/21/97	Gross alpha		2.2 pCi/g
PC-B140-018	3	8/29/01	Gross alpha		2.2 pCi/g
PC-B232-007	1	10/5/05	Gross alpha	<	2.2 pCi/g
PC-B241-003	4	5/31/95	Gross alpha		2.2 pCi/g
PC-B298-010	1	11/25/97	Gross alpha		2.2 pCi/g
PC-B332-057	1	5/16/06	Gross alpha	<	2.2 pCi/g
PC-B451-002	2	1/27/98	Gross alpha		2.2 pCi/g
PC-B551-002	1	7/13/99	Gross alpha		2.2 pCi/g
PC-B592-005	0	8/9/99	Gross alpha		2.2 pCi/g
PC-B612-014	3	1/8/98	Gross alpha		2.2 pCi/g
PC-B697-001	1	9/7/04	Gross alpha	<	2.2 pCi/g
PC-T5977-001	4	11/21/95	Gross alpha	<	2.2 pCi/g
PC-B151-003	1	10/13/04	Gross alpha	<	2.3 pCi/g
PC-B191-005	1	4/29/02	Gross alpha		2.3 pCi/g
PC-B231-019	0	11/14/95	Gross alpha	<	2.3 pCi/g
PC-B233-002	1	3/6/97	Gross alpha		2.3 pCi/g
PC-B319-001	4	9/9/03	Gross alpha	<	2.3 pCi/g
PC-B321-008	3	7/2/02	Gross alpha	<	2.3 pCi/g
PC-B332-028	2	5/15/95	Gross alpha		2.3 pCi/g
PC-B368-003	3	2/13/04	Gross alpha	<	2.3 pCi/g
PC-B511-005	2	11/17/03	Gross alpha	<	2.3 pCi/g
PC-B691-003	1	10/16/97	Gross alpha		2.3 pCi/g
PC-T1629-001	1.5	9/25/01	Gross alpha		2.3 pCi/g
PC-T6179-001	1	12/11/98	Gross alpha		2.3 pCi/g
PC-WGTC-002	1	3/7/05	Gross alpha	<	2.3 pCi/g
PC-NIF-014	12	8/26/96	Gross alpha	<	2.35 pCi/g
PC-B511-001	2	6/25/96	Gross alpha	<	2.37 pCi/g
PC-B140-002	5.5	8/28/01	Gross alpha		2.4 pCi/g
PC-B194-006	4	8/1/00	Gross alpha		2.4 pCi/g
PC-B211-004	2	10/9/97	Gross alpha		2.4 pCi/g
PC-B231-009	0	6/22/95	Gross alpha		2.4 pCi/g
PC-B231-013	0	10/25/95	Gross alpha	<	2.4 pCi/g

location identifier	depth	sampled	description	< value	units
PC-B321-006	1	3/6/97	Gross alpha		2.4 pCi/g
PC-B332-042	0	12/11/95	Gross alpha		2.4 pCi/g
PC-B412-004	0.5	9/6/05	Gross alpha	<	2.4 pCi/g
PC-B418-006	4	2/21/06	Gross alpha	<	2.4 pCi/g
PC-T3427-001	0	7/30/98	Gross alpha		2.4 pCi/g
PC-T5904-001	1	12/16/97	Gross alpha		2.4 pCi/g
PC-TFD-010	0	5/10/99	Gross alpha		2.4 pCi/g
PC-B111-003	1	7/29/98	Gross alpha		2.5 pCi/g
PC-B140-001	5.5	8/28/01	Gross alpha		2.5 pCi/g
PC-B140-004	5.5	8/28/01	Gross alpha		2.5 pCi/g
PC-B154-001	5	12/18/00	Gross alpha		2.5 pCi/g
PC-B231-016	0	10/25/95	Gross alpha	<	2.5 pCi/g
PC-B235-002	1	5/3/99	Gross alpha		2.5 pCi/g
PC-B312-001	0	2/19/98	Gross alpha		2.5 pCi/g
PC-B439-002	0	3/30/99	Gross alpha		2.5 pCi/g
PC-B511-004	3	2/28/01	Gross alpha		2.5 pCi/g
PC-M&O-001	5	8/23/99	Gross alpha		2.5 pCi/g
PC-NIF-006	12	8/26/96	Gross alpha		2.53 pCi/g
PC-NIF-014	12	8/26/96	Gross alpha		2.59 pCi/g
PC-4298-001	0	7/10/97	Gross alpha		2.6 pCi/g
PC-B232-004	5	6/28/05	Gross alpha	<	2.6 pCi/g
PC-B404-002	2	2/16/95	Gross alpha		2.6 pCi/g
PC-DWTF-121	10	7/20/95	Gross alpha		2.6 pCi/g
PC-W404-001	0.5	6/28/06	Gross alpha	<	2.6 pCi/g
PC-B622-001	0	5/29/96	Gross alpha	<	2.64 pCi/g
PC-NIF-007	12	8/26/96	Gross alpha		2.65 pCi/g
PC-B123-001	2	3/6/98	Gross alpha		2.7 pCi/g
PC-B153-007	3	4/8/03	Gross alpha		2.7 pCi/g
PC-B154-002	5	12/18/00	Gross alpha		2.7 pCi/g
PC-B169-100	0	2/24/95	Gross alpha		2.7 pCi/g
PC-B194-007	1	1/19/01	Gross alpha		2.7 pCi/g
PC-B231-026	3	12/17/04	Gross alpha	<	2.7 pCi/g
PC-B256-001	0	10/2/97	Gross alpha		2.7 pCi/g
PC-B321-010	4.5	2/27/03	Gross alpha	<	2.7 pCi/g
PC-B332-043	0	12/11/95	Gross alpha		2.7 pCi/g
PC-B368-002	3	2/13/04	Gross alpha	<	2.7 pCi/g
PC-B412-003	0.5	9/6/05	Gross alpha	<	2.7 pCi/g
PC-B419-005	4	2/21/06	Gross alpha	<	2.7 pCi/g
PC-B551-003	1	7/13/99	Gross alpha		2.7 pCi/g
PC-B551-007	1	7/16/99	Gross alpha		2.7 pCi/g
PC-T3527-001	3	9/20/06	Gross alpha		2.7 pCi/g
PC-T6498-004	0.5	6/21/04	Gross alpha	<	2.7 pCi/g
PC-T6498-011	3	11/10/05	Gross alpha	<	2.7 pCi/g
PC-B140-005	5.5	8/28/01	Gross alpha		2.8 pCi/g
PC-B140-011	4	8/28/01	Gross alpha		2.8 pCi/g
PC-B222-016	2	9/27/04	Gross alpha	<	2.8 pCi/g
PC-B232-005	1.5	10/5/05	Gross alpha	<	2.8 pCi/g
PC-B239-001	1	9/18/97	Gross alpha		2.8 pCi/g
PC-B253-001	3.5	9/28/05	Gross alpha	<	2.8 pCi/g

location identifier	depth	sampled	description	< value	units
PC-B282-002	4	11/21/06	Gross alpha	<	2.8 pCi/g
PC-B292-010	0.5	10/20/99	Gross alpha		2.8 pCi/g
PC-B298-012	1	11/25/97	Gross alpha		2.8 pCi/g
PC-B332-046	0	9/10/98	Gross alpha		2.8 pCi/g
PC-B332-052	0	2/14/00	Gross alpha		2.8 pCi/g
PC-B412-006	0.5	9/6/05	Gross alpha	<	2.8 pCi/g
PC-B431-011	1	2/19/99	Gross alpha		2.8 pCi/g
PC-B515-001	0	4/28/99	Gross alpha		2.8 pCi/g
PC-B611-001	1	2/9/98	Gross alpha		2.8 pCi/g
PC-DWTF-125	0	7/20/95	Gross alpha		2.8 pCi/g
PC-T3520-001	1	7/13/99	Gross alpha		2.8 pCi/g
PC-TF518-003	0	10/30/97	Gross alpha		2.8 pCi/g
PC-B216-002	0	3/8/96	Gross alpha		2.88 pCi/g
PC-B361-015	2	7/23/03	Gross alpha		2.9 pCi/g
PC-B438-001	0	7/28/99	Gross alpha		2.9 pCi/g
PC-T4725-002	5	4/17/03	Gross alpha		2.9 pCi/g
PC-DWTF-102	0	7/13/95	Gross alpha		2.95 pCi/g
PC-DWTF-111	1	7/20/95	Gross alpha		2.95 pCi/g
PC-B140-008	4	8/28/01	Gross alpha		3 pCi/g
PC-B140-010	4	8/28/01	Gross alpha		3 pCi/g
PC-B140-014	2.5	8/29/01	Gross alpha		3 pCi/g
PC-B140-020	3	8/29/01	Gross alpha		3 pCi/g
PC-B194-002	0	4/10/95	Gross alpha		3 pCi/g
PC-B231-025	3	12/17/04	Gross alpha	<	3 pCi/g
PC-B261-002	5	11/21/05	Gross alpha	<	3 pCi/g
PC-B298-007	1	11/25/97	Gross alpha		3 pCi/g
PC-B298-009	1	11/25/97	Gross alpha		3 pCi/g
PC-B332-045	0	7/10/97	Gross alpha		3 pCi/g
PC-B364-002	1	10/12/98	Gross alpha		3 pCi/g
PC-DWTF-118	10	7/20/95	Gross alpha		3 pCi/g
PC-T2629-004	1	10/14/03	Gross alpha		3 pCi/g
PC-DWTF-113	1	7/20/95	Gross alpha		3.02 pCi/g
PC-B140-013	2.5	8/28/01	Gross alpha		3.1 pCi/g
PC-B178-002	3	6/12/06	Gross alpha		3.1 pCi/g
PC-B235-001	1	5/3/99	Gross alpha		3.1 pCi/g
PC-B239-001	0	8/6/97	Gross alpha		3.1 pCi/g
PC-B243-003	2	7/22/03	Gross alpha		3.1 pCi/g
PC-B256-005	0.5	4/15/05	Gross alpha	<	3.1 pCi/g
PC-B391-009	6	5/8/01	Gross alpha		3.1 pCi/g
PC-B512-004	0.5	10/26/99	Gross alpha		3.1 pCi/g
PC-B691-004	0	8/9/99	Gross alpha		3.1 pCi/g
PC-T5475-005	4	1/9/06	Gross alpha		3.1 pCi/g
PC-T5625-001	1	11/12/98	Gross alpha		3.1 pCi/g
PC-T6925-001	2	8/5/97	Gross alpha		3.1 pCi/g
PC-DWTF-107	0	7/17/95	Gross alpha		3.11 pCi/g
PC-B514-003	2	6/27/96	Gross alpha	<	3.12 pCi/g
PC-DWTF-110	0	7/17/95	Gross alpha		3.12 pCi/g
PC-DWTF-111	6	7/20/95	Gross alpha		3.14 pCi/g
PC-EPSRU-303	2	7/12/96	Gross alpha		3.15 pCi/g

location identifier	depth	sampled	description	< value	units
PC-DWTF-104	6	7/13/95	Gross alpha	3.17	pCi/g
PC-B121-002	6	7/25/01	Gross alpha	3.2	pCi/g
PC-B140-003	5.5	8/28/01	Gross alpha	3.2	pCi/g
PC-B140-019	3	8/28/01	Gross alpha	3.2	pCi/g
PC-B256-002	0	10/2/97	Gross alpha	3.2	pCi/g
PC-B671-001	1	12/16/98	Gross alpha	3.2	pCi/g
PC-DWTF-122	6	7/20/95	Gross alpha	< 3.2	pCi/g
PC-T4326-001	1.5	9/24/01	Gross alpha	3.2	pCi/g
PC-T5626-004	1	2/4/03	Gross alpha	< 3.2	pCi/g
PC-T6675-001	1	4/17/01	Gross alpha	3.2	pCi/g
PC-WPD-001	2	7/11/00	Gross alpha	3.2	pCi/g
PC-EPSRU-305	2	7/12/96	Gross alpha	< 3.23	pCi/g
PC-DWTF-124	1	7/17/95	Gross alpha	3.24	pCi/g
PC-ASW-001	14	1/22/04	Gross alpha	< 3.3	pCi/g
PC-B140-007	5.5	8/28/01	Gross alpha	3.3	pCi/g
PC-B141-003	7	3/15/06	Gross alpha	3.3	pCi/g
PC-B435-019	3	12/17/04	Gross alpha	3.3	pCi/g
PC-B492-002	6	8/7/01	Gross alpha	3.3	pCi/g
PC-T1404-001	2	7/22/03	Gross alpha	3.3	pCi/g
PC-TFE-006	3	7/7/05	Gross alpha	< 3.3	pCi/g
PC-DWTF-107	8	7/20/95	Gross alpha	3.33	pCi/g
PC-B140-009	4	8/29/01	Gross alpha	3.4	pCi/g
PC-B171-003	3	4/26/05	Gross alpha	< 3.4	pCi/g
PC-B191-004	0	9/2/99	Gross alpha	3.4	pCi/g
PC-B343-001	4	10/15/02	Gross alpha	< 3.4	pCi/g
PC-B391-007	1	10/23/97	Gross alpha	3.4	pCi/g
PC-B471-001	2	1/3/06	Gross alpha	3.4	pCi/g
PC-B612-015	1	7/16/98	Gross alpha	3.4	pCi/g
PC-T5475-002	1	9/22/00	Gross alpha	3.4	pCi/g
PC-B154-003	5	12/18/00	Gross alpha	3.5	pCi/g
PC-B211-002	4	10/9/97	Gross alpha	3.5	pCi/g
PC-B212-013	0	12/2/97	Gross alpha	3.5	pCi/g
PC-B228-001	0	6/18/98	Gross alpha	3.5	pCi/g
PC-B298-011	1	11/25/97	Gross alpha	3.5	pCi/g
PC-B325-009	4	9/27/99	Gross alpha	3.5	pCi/g
PC-B332-053	0	2/14/00	Gross alpha	3.5	pCi/g
PC-B481-007	6	7/3/03	Gross alpha	3.5	pCi/g
PC-DWTF-119	10	7/20/95	Gross alpha	3.5	pCi/g
PC-E7-001	3	9/4/97	Gross alpha	3.5	pCi/g
PC-WGTC-001	1	3/7/05	Gross alpha	3.5	pCi/g
PC-DWTF-101	0	7/13/95	Gross alpha	3.56	pCi/g
PC-DWTF-110	8	7/20/95	Gross alpha	3.57	pCi/g
PC-DWTF-106	0	7/13/95	Gross alpha	3.58	pCi/g
PC-B131-007	1	9/4/03	Gross alpha	3.6	pCi/g
PC-B131-008	1	9/4/03	Gross alpha	3.6	pCi/g
PC-B140-017	3	8/29/01	Gross alpha	3.6	pCi/g
PC-B211-001	2	10/9/97	Gross alpha	3.6	pCi/g
PC-B222-012	2	9/20/04	Gross alpha	< 3.6	pCi/g
PC-B231-024	2	1/28/03	Gross alpha	< 3.6	pCi/g

location identifier	depth	sampled	description	< value	units
PC-B239-003	8	1/22/01	Gross alpha		3.6 pCi/g
PC-B329-001	3	12/17/04	Gross alpha	<	3.6 pCi/g
PC-B332-051	0	2/14/00	Gross alpha		3.6 pCi/g
PC-B419-014	3	4/16/02	Gross alpha		3.6 pCi/g
PC-B424-004	8	4/18/00	Gross alpha		3.6 pCi/g
PC-B592-002	3	2/5/99	Gross alpha		3.6 pCi/g
PC-B599-001	7	11/20/06	Gross alpha		3.6 pCi/g
PC-T4180-001	3	5/21/02	Gross alpha	<	3.6 pCi/g
PC-DWTF-112	5	7/20/95	Gross alpha		3.67 pCi/g
PC-B113-001	0	8/7/97	Gross alpha		3.7 pCi/g
PC-B140-021	1.5	8/29/01	Gross alpha		3.7 pCi/g
PC-B314-002	1.5	10/15/01	Gross alpha		3.7 pCi/g
PC-B439-001	1	1/27/99	Gross alpha		3.7 pCi/g
PC-B599-001	7	11/20/06	Gross alpha		3.7 pCi/g
PC-T2684-001	3	4/22/02	Gross alpha		3.7 pCi/g
PC-T2787-001	1.5	9/17/01	Gross alpha		3.7 pCi/g
PC-DWTF-104	0	7/13/95	Gross alpha		3.71 pCi/g
PC-DWTF-108	0	7/17/95	Gross alpha		3.75 pCi/g
PC-DWTF-102	6	7/13/95	Gross alpha		3.77 pCi/g
PC-B298-004	3	11/20/97	Gross alpha		3.8 pCi/g
PC-B321-013	45	4/25/03	Gross alpha		3.8 pCi/g
PC-B419-003	4	2/21/06	Gross alpha		3.8 pCi/g
PC-B481-005	6	7/3/03	Gross alpha		3.8 pCi/g
PC-B514-008	2	2/7/06	Gross alpha		3.8 pCi/g
PC-T1886-001	0	8/8/00	Gross alpha		3.8 pCi/g
PC-T5626-005	1	2/4/03	Gross alpha		3.8 pCi/g
PC-DWTF-105	0	7/20/95	Gross alpha		3.86 pCi/g
PC-DWTF-112	0	7/17/95	Gross alpha		3.86 pCi/g
PC-B140-015	2.5	8/29/01	Gross alpha		3.9 pCi/g
PC-B298-003	1	10/20/97	Gross alpha		3.9 pCi/g
PC-B332-046	0	9/10/98	Gross alpha		3.9 pCi/g
PC-B332-050	0	2/14/00	Gross alpha		3.9 pCi/g
PC-B341-003	2	9/24/01	Gross alpha		3.9 pCi/g
PC-T5627-001	2	8/7/97	Gross alpha		3.9 pCi/g
PC-DWTF-105	0	7/20/95	Gross alpha		3.95 pCi/g
PC-4675-001	0	10/9/97	Gross alpha		4 pCi/g
PC-B140-016	2.5	8/29/01	Gross alpha		4 pCi/g
PC-B140-022	1.5	8/29/01	Gross alpha		4 pCi/g
PC-B211-003	2	10/9/97	Gross alpha		4 pCi/g
PC-B321-013	15	4/25/03	Gross alpha		4 pCi/g
PC-B391-008	1	10/23/97	Gross alpha		4 pCi/g
PC-B432-002	0	4/10/97	Gross alpha		4 pCi/g
PC-T6498-009	3	11/10/05	Gross alpha	<	4 pCi/g
PC-DWTF-123	0	7/17/95	Gross alpha		4.05 pCi/g
PC-DWTF-123	1	7/17/95	Gross alpha		4.05 pCi/g
PC-DWTF-103	1	7/13/95	Gross alpha		4.06 pCi/g
PC-DWTF-103	0	7/13/95	Gross alpha		4.07 pCi/g
PC-B228-002	0	6/18/98	Gross alpha		4.1 pCi/g
PC-B321-013	30	4/25/03	Gross alpha		4.1 pCi/g

location identifier	depth	sampled	description	< value	units
PC-B415-013	1.5	9/10/01	Gross alpha		4.1 pCi/g
PC-B418-005	4	2/21/06	Gross alpha		4.1 pCi/g
PC-T1888-001	1.5	10/1/01	Gross alpha		4.1 pCi/g
PC-B222-010	2	9/20/04	Gross alpha	<	4.2 pCi/g
PC-B256-003	8	12/14/99	Gross alpha		4.2 pCi/g
PC-B511-003	2	9/19/00	Gross alpha		4.2 pCi/g
PC-B543-002	1.5	10/23/01	Gross alpha		4.2 pCi/g
PC-B622-002	7	8/19/04	Gross alpha	<	4.2 pCi/g
PC-B691-002	1	10/16/97	Gross alpha		4.2 pCi/g
PC-M&O-002	1	4/30/03	Gross alpha		4.2 pCi/g
PC-T2629-003	1	10/14/03	Gross alpha		4.2 pCi/g
PC-T4997-001	6	7/8/03	Gross alpha		4.2 pCi/g
PC-T4997-003	6	7/8/03	Gross alpha		4.2 pCi/g
PC-DWTF-108	2	7/20/95	Gross alpha		4.27 pCi/g
PC-DWTF-106	6	7/20/95	Gross alpha		4.28 pCi/g
PC-DWTF-109	0	7/17/95	Gross alpha		4.29 pCi/g
PC-B323-006	0	7/10/97	Gross alpha		4.4 pCi/g
PC-DWTF-109	8	7/20/95	Gross alpha		4.4 pCi/g
PC-DWTF-113	3	7/20/95	Gross alpha		4.46 pCi/g
PC-B007-007	1	9/23/98	Gross alpha		4.5 pCi/g
PC-B335-002	2	12/16/02	Gross alpha	<	4.5 pCi/g
PC-DWTF-114	5	7/20/95	Gross alpha		4.54 pCi/g
PC-EPSRU-306	2	7/12/96	Gross alpha		4.54 pCi/g
PC-EPSRU-301	2	7/12/96	Gross alpha	<	4.55 pCi/g
PC-DWTF-101	4	7/13/95	Gross alpha		4.59 pCi/g
PC-B142-001	9	7/10/03	Gross alpha		4.6 pCi/g
PC-B222-003	1.5	8/19/03	Gross alpha		4.6 pCi/g
PC-B282-001	4	11/21/06	Gross alpha		4.6 pCi/g
PC-B336-001	2	3/28/02	Gross alpha		4.6 pCi/g
PC-B345-003	1	4/2/97	Gross alpha		4.6 pCi/g
PC-B419-001	0	3/8/96	Gross alpha		4.6 pCi/g
PC-ERD-012	0	11/2/98	Gross alpha		4.6 pCi/g
PC-T5475-004	4	1/9/06	Gross alpha		4.6 pCi/g
PC-B140-006	5.5	8/28/01	Gross alpha		4.7 pCi/g
PC-B321-036	0.5	5/22/01	Gross alpha		4.7 pCi/g
PC-B325-007	2	11/18/98	Gross alpha		4.7 pCi/g
PC-B332-056	3	8/11/03	Gross alpha		4.7 pCi/g
PC-B436-009	5	7/15/02	Gross alpha	<	4.7 pCi/g
PC-E7-003	1	10/10/97	Gross alpha		4.7 pCi/g
PC-DWTF-124	0	7/17/95	Gross alpha		4.77 pCi/g
PC-B222-002	1.5	8/19/03	Gross alpha		4.8 pCi/g
PC-B661-001	0	6/28/96	Gross alpha		4.89 pCi/g
PC-E7-002	1	10/10/97	Gross alpha		4.9 pCi/g
PC-T5475-006	4	1/9/06	Gross alpha		4.9 pCi/g
PC-B113-002	4	7/10/00	Gross alpha		5 pCi/g
PC-B194-003	1	8/12/97	Gross alpha		5 pCi/g
PC-B322-046	4	5/9/00	Gross alpha		5 pCi/g
PC-T4725-001	5	4/17/03	Gross alpha		5 pCi/g
PC-B321-012	4.5	2/27/03	Gross alpha		5.1 pCi/g

location identifier	depth	sampled	description	< value	units
PC-5THSX-001	6	9/5/02	Gross alpha	<	5.2 pCi/g
PC-B153-009	3	9/25/06	Gross alpha		5.2 pCi/g
PC-B113-003	3	4/25/06	Gross alpha		5.3 pCi/g
PC-T5477-002	4	1/9/06	Gross alpha		5.3 pCi/g
PC-B343-003	4	11/4/02	Gross alpha		5.4 pCi/g
PC-B131-012	3	10/29/04	Gross alpha		5.6 pCi/g
PC-T4997-002	6	7/8/03	Gross alpha		5.6 pCi/g
PC-B325-008	2	11/18/98	Gross alpha		5.7 pCi/g
PC-B142-002	9	7/10/03	Gross alpha		5.8 pCi/g
PC-B435-018	2	2/20/03	Gross alpha		5.8 pCi/g
PC-B222-001	1.5	8/19/03	Gross alpha		5.9 pCi/g
PC-B481-006	6	7/3/03	Gross alpha		6 pCi/g
PC-T5475-003	1	3/29/99	Gross alpha		6 pCi/g
PC-NAL-008	1	1/22/02	Gross alpha		6.1 pCi/g
PC-B227-001	3	6/12/01	Gross alpha		6.2 pCi/g
PC-B321-015	2	11/8/04	Gross alpha		6.2 pCi/g
PC-B551-006	1	7/16/99	Gross alpha		6.2 pCi/g
PC-T3926-001	1	8/9/01	Gross alpha		6.2 pCi/g
PC-ASW-001	7	1/22/04	Gross alpha	<	6.3 pCi/g
PC-B435-017	2	2/20/03	Gross alpha		6.5 pCi/g
PC-T2629-002	1	8/26/02	Gross alpha		6.5 pCi/g
PC-B041-001	4	9/4/02	Gross alpha	<	6.6 pCi/g
PC-T3777-001	6	5/28/02	Gross alpha		6.6 pCi/g
PC-B343-002	4	11/4/02	Gross alpha		6.7 pCi/g
PC-T5625-002	1	11/12/98	Gross alpha		6.7 pCi/g
PC-B131-009	1	9/4/03	Gross alpha		6.8 pCi/g
PC-B131-010	1	9/4/03	Gross alpha		7 pCi/g
PC-TANK9-001	4	9/25/00	Gross alpha		7.3 pCi/g
PC-M&O-003	1	4/30/03	Gross alpha		7.5 pCi/g
PC-B332-054	5	2/20/03	Gross alpha		7.6 pCi/g
PC-B697-002	1	9/7/04	Gross alpha	<	7.7 pCi/g
PC-B332-055	5	2/20/03	Gross alpha		7.9 pCi/g
PC-B321-011	2.5	2/27/03	Gross alpha		8 pCi/g
PC-T6498-008	3	11/10/05	Gross alpha		8.2 pCi/g
PC-B691-001	0	6/28/96	Gross alpha		8.26 pCi/g
PC-B151-001	0.5	6/24/02	Gross alpha		11 pCi/g
				N	475
				mean	2.7
				stdev	1.56
				mean plus 2 SD	5.8
				95%ile	6.0
				95th utl rank	459.6
				95th ucl of 95%ile	6.5

LIVERMORE SITE GROSS BETA

PC-B661-001	0	6/28/96	Gross beta	<	-7.12 pCi/g
PC-NIF-014	12	8/26/96	Gross beta	<	-4.23 pCi/g
PC-B514-003	2	6/27/96	Gross beta	<	-4.1 pCi/g

location identifier	depth	sampled	description	< value	units
PC-B511-001	2	6/25/96	Gross beta	< -2.25	pCi/g
PC-B435-018	2	2/20/03	Gross beta	< -1.3	pCi/g
PC-B622-001	0	5/29/96	Gross beta	< -1.23	pCi/g
PC-B153-008	4	8/24/05	Gross beta	< -0.73	pCi/g
PC-B435-017	2	2/20/03	Gross beta	< -0.62	pCi/g
PC-B232-002	1.5	3/29/96	Gross beta	< -0.444	pCi/g
PC-ASW-002	14	1/22/04	Gross beta	< -0.42	pCi/g
PC-B691-001	0	6/28/96	Gross beta	< -0.059	pCi/g
PC-B171-002	3	4/26/05	Gross beta	0.2	pCi/g
PC-NIF-010	12	8/26/96	Gross beta	< 0.218	pCi/g
PC-B336-001	2	3/28/02	Gross beta	< 0.46	pCi/g
PC-B321-006	1	1/30/97	Gross beta	< 0.5	pCi/g
PC-B445-005	1	10/9/06	Gross beta	< 0.57	pCi/g
PC-B321-017	6	4/19/05	Gross beta	< 0.58	pCi/g
PC-B232-004	5	6/28/05	Gross beta	< 0.61	pCi/g
PC-B623-002	14	5/1/06	Gross beta	0.67	pCi/g
PC-B412-005	0.5	10/3/05	Gross beta	< 0.68	pCi/g
PC-B131-011	1	12/1/03	Gross beta	< 0.72	pCi/g
PC-T2475-001	3	4/15/02	Gross beta	< 0.78	pCi/g
PC-B325-011	5	11/9/04	Gross beta	< 0.8	pCi/g
PC-B445-006	1	10/9/06	Gross beta	< 0.83	pCi/g
PC-NIF-009	12	8/26/96	Gross beta	< 0.857	pCi/g
PC-B231-021	2	5/14/96	Gross beta	0.87	pCi/g
PC-B551-005	1	7/16/99	Gross beta	< 0.89	pCi/g
PC-B171-005	1	9/19/05	Gross beta	< 0.91	pCi/g
PC-B314-001	0.5	4/1/99	Gross beta	< 0.92	pCi/g
PC-B445-004	1	10/9/06	Gross beta	< 0.92	pCi/g
PC-B445-007	1	10/9/06	Gross beta	< 0.93	pCi/g
PC-B592-005	0	8/9/99	Gross beta	< 0.93	pCi/g
PC-B222-015	2	9/20/04	Gross beta	< 1	pCi/g
PC-B321-014	2	6/18/04	Gross beta	< 1	pCi/g
PC-NIF-007	12	8/26/96	Gross beta	< 1.06	pCi/g
PC-B445-002	1	10/9/06	Gross beta	1.1	pCi/g
PC-B391-009	6	5/8/01	Gross beta	< 1.2	pCi/g
PC-NIF-001	12	8/26/96	Gross beta	< 1.2	pCi/g
PC-B431-012	1	1/22/01	Gross beta	< 1.3	pCi/g
PC-B551-004	1	7/16/99	Gross beta	1.3	pCi/g
PC-B622-002	7	8/19/04	Gross beta	< 1.3	pCi/g
PC-B222-008	1.5	12/22/03	Gross beta	< 1.4	pCi/g
PC-B412-004	0.5	9/6/05	Gross beta	< 1.4	pCi/g
PC-B412-006	0.5	9/6/05	Gross beta	< 1.4	pCi/g
PC-B551-002	1	7/13/99	Gross beta	< 1.4	pCi/g
PC-T6498-002	0.5	6/21/04	Gross beta	< 1.4	pCi/g
PC-B231-022	2	5/14/96	Gross beta	1.41	pCi/g
PC-B171-004	1	9/19/05	Gross beta	< 1.5	pCi/g
PC-B222-006	1.5	12/22/03	Gross beta	< 1.5	pCi/g
PC-B424-005	8	4/18/00	Gross beta	1.5	pCi/g
PC-B222-004	1.5	12/22/03	Gross beta	< 1.6	pCi/g
PC-B298-005	3	11/20/97	Gross beta	< 1.6	pCi/g

location identifier	depth	sampled	description	< value	units
PC-B332-049	0	9/9/99	Gross beta	< 1.6	pCi/g
PC-B321-035	1	11/4/97	Gross beta	< 1.7	pCi/g
PC-T6925-001	2	8/5/97	Gross beta	< 1.7	pCi/g
PC-NIF-013	12	8/26/96	Gross beta	< 1.72	pCi/g
PC-B212-013	0	12/2/97	Gross beta	< 1.8	pCi/g
PC-B231-025	3	12/17/04	Gross beta	< 1.8	pCi/g
PC-B325-010	5	11/9/04	Gross beta	< 1.8	pCi/g
PC-B435-019	3	12/17/04	Gross beta	< 1.8	pCi/g
PC-B445-003	1	10/9/06	Gross beta	< 1.8	pCi/g
PC-B232-004	5	6/28/05	Gross beta	< 1.9	pCi/g
PC-B298-009	1	11/25/97	Gross beta	< 1.9	pCi/g
PC-M&O-001	5	8/23/99	Gross beta	< 1.9	pCi/g
PC-B218-001	0	11/22/96	Gross beta	< 1.95	pCi/g
PC-B117-004	1	7/26/00	Gross beta	< 2	pCi/g
PC-B232-006	1	10/5/05	Gross beta	< 2	pCi/g
PC-B321C-020	25	10/13/05	Gross beta	< 2	pCi/g
PC-B592-002	3	2/5/99	Gross beta	< 2	pCi/g
PC-B141-003	7	3/15/06	Gross beta	< 2.1	pCi/g
PC-B298-007	1	11/25/97	Gross beta	< 2.1	pCi/g
PC-B361-014	1	2/24/97	Gross beta	< 2.1	pCi/g
PC-B418-006	4	2/21/06	Gross beta	< 2.1	pCi/g
PC-B691-004	0	8/9/99	Gross beta	< 2.1	pCi/g
PC-TFE-007	3	7/7/05	Gross beta	< 2.1	pCi/g
PC-B132-034	2	5/29/97	Gross beta	< 2.2	pCi/g
PC-B194-003	1	8/12/97	Gross beta	< 2.2	pCi/g
PC-B253-001	3.5	9/28/05	Gross beta	< 2.2	pCi/g
PC-B511-004	3	2/28/01	Gross beta	< 2.2	pCi/g
PC-B623-001	7	5/1/06	Gross beta	< 2.2	pCi/g
PC-DWTF-111	1	7/20/95	Gross beta	< 2.2	pCi/g
PC-T6179-001	1	12/11/98	Gross beta	< 2.2	pCi/g
PC-DWTF-114	5	7/20/95	Gross beta	< 2.29	pCi/g
PC-B171-003	3	4/26/05	Gross beta	< 2.3	pCi/g
PC-B171-006	1	9/19/05	Gross beta	< 2.3	pCi/g
PC-B191-005	1	4/29/02	Gross beta	< 2.3	pCi/g
PC-B194-007	1	1/19/01	Gross beta	< 2.3	pCi/g
PC-B231-026	3	12/17/04	Gross beta	< 2.3	pCi/g
PC-B232-008	1	10/5/05	Gross beta	< 2.3	pCi/g
PC-B261-002	5	11/21/05	Gross beta	< 2.3	pCi/g
PC-B368-003	3	2/13/04	Gross beta	< 2.3	pCi/g
PC-B511-005	2	11/17/03	Gross beta	< 2.3	pCi/g
PC-T1886-001	0	8/8/00	Gross beta	< 2.3	pCi/g
PC-WPD-001	2	7/11/00	Gross beta	< 2.3	pCi/g
PC-B481-004	2	6/10/96	Gross beta	< 2.31	pCi/g
PC-DWTF-111	6	7/20/95	Gross beta	< 2.34	pCi/g
PC-DWTF-107	8	7/20/95	Gross beta	< 2.35	pCi/g
PC-B177-001	1	3/9/98	Gross beta	< 2.4	pCi/g
PC-B222-005	1.5	12/22/03	Gross beta	< 2.4	pCi/g
PC-B232-007	1	10/5/05	Gross beta	< 2.4	pCi/g
PC-B298-003	3	11/20/97	Gross beta	< 2.4	pCi/g

location identifier	depth	sampled	description	< value	units
PC-B321C-021	0	10/20/05	Gross beta	<	2.4 pCi/g
PC-B325-009	4	9/27/99	Gross beta	<	2.4 pCi/g
PC-B514-004	4	8/11/04	Gross beta	<	2.4 pCi/g
PC-B599-001	7	11/20/06	Gross beta		2.4 pCi/g
PC-DWTF-108	0	7/17/95	Gross beta		2.43 pCi/g
PC-DWTF-113	1	7/20/95	Gross beta		2.43 pCi/g
PC-B222-007	1.5	12/22/03	Gross beta	<	2.5 pCi/g
PC-B222-010	2	9/20/04	Gross beta	<	2.5 pCi/g
PC-B239-001	0	8/6/97	Gross beta	<	2.5 pCi/g
PC-B332-051	0	2/14/00	Gross beta		2.5 pCi/g
PC-B551-006	1	7/16/99	Gross beta		2.5 pCi/g
PC-B551-008	4	7/13/99	Gross beta		2.5 pCi/g
PC-T5475-006	4	1/9/06	Gross beta		2.5 pCi/g
PC-NIF-008	12	8/26/96	Gross beta	<	2.51 pCi/g
PC-DWTF-102	6	7/13/95	Gross beta		2.53 pCi/g
PC-NIF-012	12	8/26/96	Gross beta	<	2.54 pCi/g
PC-4182-001	0	11/21/97	Gross beta	<	2.6 pCi/g
PC-B111-003	1	7/29/98	Gross beta		2.6 pCi/g
PC-B174-001	1.5	2/18/97	Gross beta	<	2.6 pCi/g
PC-B282-001	4	11/21/06	Gross beta	<	2.6 pCi/g
PC-B424-004	8	4/18/00	Gross beta		2.6 pCi/g
PC-DWTF-112	0	7/17/95	Gross beta		2.65 pCi/g
PC-TF518-002	0	2/15/96	Gross beta	<	2.69 pCi/g
PC-B151-002	1	10/13/04	Gross beta	<	2.7 pCi/g
PC-B212-014	4	11/28/05	Gross beta	<	2.7 pCi/g
PC-B222-014	2	9/20/04	Gross beta	<	2.7 pCi/g
PC-B323-005	0	7/10/97	Gross beta	<	2.7 pCi/g
PC-B412-002	0.5	9/6/05	Gross beta	<	2.7 pCi/g
PC-B419-004	4	2/21/06	Gross beta	<	2.7 pCi/g
PC-B512-004	0.5	10/26/99	Gross beta		2.7 pCi/g
PC-NIF-004	12	8/26/96	Gross beta	<	2.7 pCi/g
PC-NIF-104	6	2/12/97	Gross beta	<	2.7 pCi/g
PC-T3520-002	0	1/3/00	Gross beta		2.7 pCi/g
PC-T6675-001	1	4/17/01	Gross beta		2.7 pCi/g
PC-DWTF-124	1	7/17/95	Gross beta		2.71 pCi/g
PC-B113-002	4	7/10/00	Gross beta		2.8 pCi/g
PC-B123-001	2	3/6/98	Gross beta	<	2.8 pCi/g
PC-B191-004	0	9/2/99	Gross beta		2.8 pCi/g
PC-B431-013	0.5	7/6/05	Gross beta		2.8 pCi/g
PC-B438-005	6	5/8/01	Gross beta	<	2.8 pCi/g
PC-B439-002	0	3/30/99	Gross beta		2.8 pCi/g
PC-B515-001	0	4/28/99	Gross beta		2.8 pCi/g
PC-B551-003	1	7/13/99	Gross beta		2.8 pCi/g
PC-B599-001	7	11/20/06	Gross beta		2.8 pCi/g
PC-B691-003	1	10/16/97	Gross beta	<	2.8 pCi/g
PC-DWTF-106	6	7/20/95	Gross beta		2.8 pCi/g
PC-NIF-003	12	8/26/96	Gross beta	<	2.84 pCi/g
PC-DWTF-102	0	7/13/95	Gross beta		2.85 pCi/g
PC-DWTF-110	0	7/17/95	Gross beta		2.85 pCi/g

location identifier	depth	sampled	description	< value	units
PC-DWTF-109	0	7/17/95	Gross beta		2.86 pCi/g
PC-DWTF-104	0	7/13/95	Gross beta		2.88 pCi/g
PC-B228-001	0	6/18/98	Gross beta	<	2.9 pCi/g
PC-B298-006	3	11/20/97	Gross beta	<	2.9 pCi/g
PC-B321-006	1	3/6/97	Gross beta	<	2.9 pCi/g
PC-B332-050	0	2/14/00	Gross beta		2.9 pCi/g
PC-B431-010	0	7/10/97	Gross beta	<	2.9 pCi/g
PC-B514-005	3	7/7/05	Gross beta		2.9 pCi/g
PC-B611-002	0.5	7/26/00	Gross beta		2.9 pCi/g
PC-B671-001	1	12/16/98	Gross beta		2.9 pCi/g
PC-B691-002	1	10/16/97	Gross beta	<	2.9 pCi/g
PC-DWTF-104	6	7/13/95	Gross beta		2.9 pCi/g
PC-TFD-010	0	5/10/99	Gross beta		2.9 pCi/g
PC-EPSRU-303	2	7/12/96	Gross beta	<	2.93 pCi/g
PC-B321-001	1	8/6/96	Gross beta	<	2.97 pCi/g
PC-B169-100	0	2/24/95	Gross beta	<	3 pCi/g
PC-B194-001	0	4/10/95	Gross beta	<	3 pCi/g
PC-B222-009	2	9/20/04	Gross beta	<	3 pCi/g
PC-B241-003	4	5/31/95	Gross beta		3 pCi/g
PC-B241-004	2	5/31/95	Gross beta	<	3 pCi/g
PC-B254-001	1	2/27/95	Gross beta	<	3 pCi/g
PC-B254-002	1	2/27/95	Gross beta	<	3 pCi/g
PC-B254-003	1	2/27/95	Gross beta	<	3 pCi/g
PC-B255-001	0	8/31/99	Gross beta		3 pCi/g
PC-B282-002	4	11/21/06	Gross beta	<	3 pCi/g
PC-B332-030	0	5/19/95	Gross beta	<	3 pCi/g
PC-B332-042	0	12/11/95	Gross beta	<	3 pCi/g
PC-B404-001	0.5	2/16/95	Gross beta	<	3 pCi/g
PC-B418-005	4	2/21/06	Gross beta	<	3 pCi/g
PC-B431-008	2	4/26/95	Gross beta	<	3 pCi/g
PC-B431-009	2	4/26/95	Gross beta	<	3 pCi/g
PC-B431-016	1.5	7/6/05	Gross beta		3 pCi/g
PC-DWTF-115	5	7/20/95	Gross beta	<	3 pCi/g
PC-DWTF-116	8	7/20/95	Gross beta	<	3 pCi/g
PC-DWTF-125	1	7/20/95	Gross beta	<	3 pCi/g
PC-DWTF-127	1	7/20/95	Gross beta	<	3 pCi/g
PC-DWTF-128	0	7/20/95	Gross beta	<	3 pCi/g
PC-ERD-002	0	8/7/95	Gross beta	<	3 pCi/g
PC-ERD-012	0	11/2/98	Gross beta		3 pCi/g
PC-T1739-001	3	3/30/06	Gross beta		3 pCi/g
PC-T3520-001	1	7/13/99	Gross beta		3 pCi/g
PC-T5904-001	1	12/16/97	Gross beta	<	3 pCi/g
PC-TFC-001	0	5/23/95	Gross beta	<	3 pCi/g
PC-B233-001	0	8/7/96	Gross beta	<	3.03 pCi/g
PC-DWTF-103	1	7/13/95	Gross beta		3.05 pCi/g
PC-B222-016	2	9/27/04	Gross beta	<	3.1 pCi/g
PC-B231-019	0	11/14/95	Gross beta	<	3.1 pCi/g
PC-B321-020	5	9/20/05	Gross beta		3.1 pCi/g
PC-B404-003	2	2/16/95	Gross beta		3.1 pCi/g

location identifier	depth	sampled	description	< value	units
PC-B431-011	1	2/19/99	Gross beta		3.1 pCi/g
PC-B438-001	0	7/28/99	Gross beta		3.1 pCi/g
PC-B511-008	4	2/21/06	Gross beta		3.1 pCi/g
PC-B612-015	1	7/16/98	Gross beta		3.1 pCi/g
PC-DWTF-101	0	7/13/95	Gross beta		3.15 pCi/g
PC-6425-011	0	4/26/95	Gross beta	<	3.2 pCi/g
PC-B154-002	5	12/18/00	Gross beta		3.2 pCi/g
PC-B212-017	3	3/1/06	Gross beta		3.2 pCi/g
PC-B222-013	2	9/20/04	Gross beta	<	3.2 pCi/g
PC-B332-052	0	2/14/00	Gross beta		3.2 pCi/g
PC-B404-002	2	2/16/95	Gross beta	<	3.2 pCi/g
PC-B612-014	3	1/8/98	Gross beta		3.2 pCi/g
PC-T5625-001	1	11/12/98	Gross beta		3.2 pCi/g
PC-T5977-001	4	11/21/95	Gross beta	<	3.2 pCi/g
PC-T6498-008	3	11/10/05	Gross beta	<	3.2 pCi/g
PC-B232-003	1.5	3/29/96	Gross beta		3.24 pCi/g
PC-DWTF-108	2	7/20/95	Gross beta		3.26 pCi/g
PC-DWTF-110	8	7/20/95	Gross beta		3.29 pCi/g
PC-B113-003	3	4/25/06	Gross beta		3.3 pCi/g
PC-B141-002	4	4/26/95	Gross beta	<	3.3 pCi/g
PC-B298-004	3	11/20/97	Gross beta		3.3 pCi/g
PC-B298-008	1	11/25/97	Gross beta		3.3 pCi/g
PC-B445-001	0	3/25/98	Gross beta		3.3 pCi/g
PC-DWTF-121	10	7/20/95	Gross beta		3.3 pCi/g
PC-DWTF-122	6	7/20/95	Gross beta	<	3.3 pCi/g
PC-T2775-001	0	3/20/96	Gross beta		3.37 pCi/g
PC-B007-007	1	9/23/98	Gross beta		3.4 pCi/g
PC-B154-003	5	12/18/00	Gross beta		3.4 pCi/g
PC-B231-021	0	11/14/95	Gross beta		3.4 pCi/g
PC-B235-001	1	5/3/99	Gross beta		3.4 pCi/g
PC-B256-005	0.5	4/15/05	Gross beta	<	3.4 pCi/g
PC-B332-031	0	5/19/95	Gross beta		3.4 pCi/g
PC-B697-001	1	9/7/04	Gross beta	<	3.4 pCi/g
PC-DWTF-103	0	7/13/95	Gross beta		3.4 pCi/g
PC-WGTC-001	1	3/7/05	Gross beta		3.4 pCi/g
PC-DWTF-113	3	7/20/95	Gross beta		3.45 pCi/g
PC-DWTF-109	8	7/20/95	Gross beta		3.47 pCi/g
PC-4675-001	0	10/9/97	Gross beta		3.5 pCi/g
PC-B231-016	0	10/25/95	Gross beta	<	3.5 pCi/g
PC-B232-005	1.5	10/5/05	Gross beta		3.5 pCi/g
PC-B243-002	0	4/24/95	Gross beta	<	3.5 pCi/g
PC-B256-002	0	10/2/97	Gross beta		3.5 pCi/g
PC-B322-046	4	5/9/00	Gross beta		3.5 pCi/g
PC-B364-002	1	10/12/98	Gross beta		3.5 pCi/g
PC-B404-004	2	2/16/95	Gross beta		3.5 pCi/g
PC-B412-003	0.5	9/6/05	Gross beta	<	3.5 pCi/g
PC-DWTF-125	0	7/20/95	Gross beta		3.5 pCi/g
PC-T3527-001	3	9/20/06	Gross beta		3.5 pCi/g
PC-TF518-003	0	10/30/97	Gross beta		3.5 pCi/g

location identifier	depth	sampled	description	< value	units
PC-DWTF-124	0	7/17/95	Gross beta	3.51	pCi/g
PC-B419-001	0	3/8/96	Gross beta	3.54	pCi/g
PC-DWTF-123	0	7/17/95	Gross beta	3.55	pCi/g
PC-DWTF-106	0	7/13/95	Gross beta	3.57	pCi/g
PC-B131-012	3	10/29/04	Gross beta	< 3.6	pCi/g
PC-B132-035	1	7/1/97	Gross beta	3.6	pCi/g
PC-B211-004	2	10/9/97	Gross beta	3.6	pCi/g
PC-B231-013	0	10/25/95	Gross beta	< 3.6	pCi/g
PC-B231-026	3	12/17/04	Gross beta	3.6	pCi/g
PC-B332-025	2	5/15/95	Gross beta	3.6	pCi/g
PC-B332-028	2	5/15/95	Gross beta	3.6	pCi/g
PC-B391-008	1	10/23/97	Gross beta	3.6	pCi/g
PC-WGTC-002	1	3/7/05	Gross beta	3.6	pCi/g
PC-DWTF-123	1	7/17/95	Gross beta	3.68	pCi/g
PC-B194-006	4	8/1/00	Gross beta	3.7	pCi/g
PC-B235-002	1	5/3/99	Gross beta	3.7	pCi/g
PC-B251-001	2	4/29/02	Gross beta	3.7	pCi/g
PC-B292-010	0.5	10/20/99	Gross beta	3.7	pCi/g
PC-B329-001	3	12/17/04	Gross beta	3.7	pCi/g
PC-B332-045	0	7/10/97	Gross beta	3.7	pCi/g
PC-B432-002	0	4/10/97	Gross beta	3.7	pCi/g
PC-B592-003	6	2/5/99	Gross beta	3.7	pCi/g
PC-T3427-001	0	7/30/98	Gross beta	3.7	pCi/g
PC-B216-002	0	3/8/96	Gross beta	3.71	pCi/g
PC-DWTF-112	5	7/20/95	Gross beta	3.72	pCi/g
PC-B153-009	3	9/25/06	Gross beta	3.8	pCi/g
PC-B154-001	5	12/18/00	Gross beta	3.8	pCi/g
PC-B178-001	3	6/12/06	Gross beta	3.8	pCi/g
PC-B222-011	2	9/20/04	Gross beta	< 3.8	pCi/g
PC-B222-012	2	9/20/04	Gross beta	< 3.8	pCi/g
PC-B228-002	0	6/18/98	Gross beta	3.8	pCi/g
PC-B298-010	1	11/25/97	Gross beta	3.8	pCi/g
PC-B439-001	1	1/27/99	Gross beta	3.8	pCi/g
PC-B514-007	2	2/7/06	Gross beta	3.8	pCi/g
PC-B543-001	0	2/24/99	Gross beta	3.8	pCi/g
PC-B551-007	1	7/16/99	Gross beta	3.8	pCi/g
PC-DWTF-101	4	7/13/95	Gross beta	3.8	pCi/g
PC-T5475-002	1	9/22/00	Gross beta	3.8	pCi/g
PC-T5625-002	1	11/12/98	Gross beta	3.8	pCi/g
PC-NIF-014	12	8/26/96	Gross beta	3.81	pCi/g
PC-B171-001	3	4/26/05	Gross beta	3.9	pCi/g
PC-B332-043	0	12/11/95	Gross beta	3.9	pCi/g
PC-B368-001	3	2/13/04	Gross beta	< 3.9	pCi/g
PC-B368-002	3	2/13/04	Gross beta	< 3.9	pCi/g
PC-B419-005	4	2/21/06	Gross beta	3.9	pCi/g
PC-T6498-004	0.5	6/21/04	Gross beta	3.9	pCi/g
PC-DWTF-105	0	7/20/95	Gross beta	3.99	pCi/g
PC-B233-002	1	3/6/97	Gross beta	4	pCi/g
PC-B298-003	1	10/20/97	Gross beta	4	pCi/g

location identifier	depth	sampled	description	< value	units
PC-B321-021	2	9/20/05	Gross beta		4 pCi/g
PC-B325-007	2	11/18/98	Gross beta		4 pCi/g
PC-B332-053	0	2/14/00	Gross beta		4 pCi/g
PC-B611-001	1	2/9/98	Gross beta		4 pCi/g
PC-B622-002	7	11/20/06	Gross beta		4 pCi/g
PC-E7-001	3	9/4/97	Gross beta		4 pCi/g
PC-DWTF-107	0	7/17/95	Gross beta	4.01	pCi/g
PC-B212-013	0	12/2/97	Gross beta	4.1	pCi/g
PC-B212-015	4	12/16/05	Gross beta	4.1	pCi/g
PC-B212-016	4	1/24/06	Gross beta	4.1	pCi/g
PC-B239-001	1	9/18/97	Gross beta	4.1	pCi/g
PC-B312-001	0	2/19/98	Gross beta	4.1	pCi/g
PC-B321C-019	25	10/13/05	Gross beta	4.1	pCi/g
PC-B332-046	0	9/10/98	Gross beta	4.1	pCi/g
PC-B451-001	6	1/27/98	Gross beta	4.1	pCi/g
PC-B211-001	2	10/9/97	Gross beta	4.2	pCi/g
PC-B451-002	2	1/27/98	Gross beta	4.2	pCi/g
PC-DWTF-120	10	7/20/95	Gross beta	4.2	pCi/g
PC-E7-002	1	10/10/97	Gross beta	4.2	pCi/g
PC-T5475-005	4	1/9/06	Gross beta	4.2	pCi/g
PC-B216-001	0	3/8/96	Gross beta	4.26	pCi/g
PC-DWTF-105	0	7/20/95	Gross beta	4.26	pCi/g
PC-ASW-001	7	1/22/04	Gross beta	< 4.3	pCi/g
PC-B194-002	0	4/10/95	Gross beta	4.3	pCi/g
PC-B332-026	2	5/15/95	Gross beta	4.3	pCi/g
PC-B125-001	0	1/13/99	Gross beta	4.4	pCi/g
PC-B198-001	1	2/11/97	Gross beta	4.4	pCi/g
PC-DWTF-118	10	7/20/95	Gross beta	4.4	pCi/g
PC-E7-003	1	10/10/97	Gross beta	4.4	pCi/g
PC-T5475-003	1	3/29/99	Gross beta	4.4	pCi/g
PC-TFE-006	3	7/7/05	Gross beta	4.4	pCi/g
PC-B113-001	0	8/7/97	Gross beta	4.5	pCi/g
PC-B471-001	2	1/3/06	Gross beta	4.5	pCi/g
PC-NIF-006	12	8/26/96	Gross beta	4.55	pCi/g
PC-B211-003	2	10/9/97	Gross beta	4.6	pCi/g
PC-B219-001	1	6/3/98	Gross beta	4.6	pCi/g
PC-B256-001	0	10/2/97	Gross beta	4.6	pCi/g
PC-B298-011	1	11/25/97	Gross beta	4.6	pCi/g
PC-B298-012	1	11/25/97	Gross beta	4.6	pCi/g
PC-B332-054	5	2/20/03	Gross beta	< 4.6	pCi/g
PC-B345-003	1	4/2/97	Gross beta	4.6	pCi/g
PC-T2684-001	3	4/22/02	Gross beta	< 4.6	pCi/g
PC-T5477-002	4	1/9/06	Gross beta	4.6	pCi/g
PC-B140-003	5.5	8/28/01	Gross beta	4.7	pCi/g
PC-B239-003	8	1/22/01	Gross beta	4.7	pCi/g
PC-B481-005	6	7/3/03	Gross beta	4.7	pCi/g
PC-DWTF-117	10	7/20/95	Gross beta	4.7	pCi/g
PC-DWTF-119	10	7/20/95	Gross beta	4.7	pCi/g
PC-T5475-004	4	1/9/06	Gross beta	4.7	pCi/g

location identifier	depth	sampled	description	< value	units
PC-W404-001	0.5	6/28/06	Gross beta		4.7 pCi/g
PC-B231-009	0	6/22/95	Gross beta		4.8 pCi/g
PC-B231-011	0	6/22/95	Gross beta		4.8 pCi/g
PC-DWTF-126	1	7/20/95	Gross beta		4.8 pCi/g
PC-4298-001	0	7/10/97	Gross beta		4.9 pCi/g
PC-B256-003	8	12/14/99	Gross beta		4.9 pCi/g
PC-B131-013	3	5/26/06	Gross beta		5 pCi/g
PC-B140-002	5.5	8/28/01	Gross beta		5 pCi/g
PC-B321-013	45	4/25/03	Gross beta		5 pCi/g
PC-B321-015	2	11/8/04	Gross beta	<	5 pCi/g
PC-B222-001	1.5	8/19/03	Gross beta	<	5.1 pCi/g
PC-B511-003	2	9/19/00	Gross beta		5.1 pCi/g
PC-DWTF-120	10	7/20/95	Gross beta		5.1 pCi/g
PC-T5627-001	2	8/7/97	Gross beta		5.1 pCi/g
PC-B142-002	9	7/10/03	Gross beta		5.2 pCi/g
PC-B325-008	2	11/18/98	Gross beta		5.2 pCi/g
PC-B332-046	0	9/10/98	Gross beta		5.2 pCi/g
PC-T6498-010	3	11/10/05	Gross beta		5.2 pCi/g
PC-TANK9-001	4	9/25/00	Gross beta		5.2 pCi/g
PC-ASW-001	14	1/22/04	Gross beta	<	5.3 pCi/g
PC-B178-002	3	6/12/06	Gross beta		5.3 pCi/g
PC-T2629-004	1	10/14/03	Gross beta	<	5.3 pCi/g
PC-T6498-011	3	11/10/05	Gross beta		5.3 pCi/g
PC-B140-001	5.5	8/28/01	Gross beta		5.4 pCi/g
PC-B391-007	1	10/23/97	Gross beta		5.4 pCi/g
PC-B514-008	2	2/7/06	Gross beta		5.4 pCi/g
PC-B323-001	0	1/21/96	Gross beta		5.46 pCi/g
PC-B140-020	3	8/29/01	Gross beta		5.5 pCi/g
PC-B222-002	1.5	8/19/03	Gross beta	<	5.5 pCi/g
PC-B443-001	0	7/10/97	Gross beta		5.5 pCi/g
PC-B222-003	1.5	8/19/03	Gross beta	<	5.6 pCi/g
PC-B319-001	4	9/9/03	Gross beta	<	5.6 pCi/g
PC-B332-057	1	5/16/06	Gross beta		5.6 pCi/g
PC-B481-006	6	7/3/03	Gross beta		5.6 pCi/g
PC-B323-006	0	7/10/97	Gross beta		5.8 pCi/g
PC-T2629-003	1	10/14/03	Gross beta		5.8 pCi/g
PC-B140-014	2.5	8/29/01	Gross beta		5.9 pCi/g
PC-B140-016	2.5	8/29/01	Gross beta		5.9 pCi/g
PC-B292-001	2	7/21/97	Gross beta		5.9 pCi/g
PC-B419-003	4	2/21/06	Gross beta		5.9 pCi/g
PC-B140-004	5.5	8/28/01	Gross beta		6 pCi/g
PC-B140-012	4	8/28/01	Gross beta		6 pCi/g
PC-B140-015	2.5	8/29/01	Gross beta		6 pCi/g
PC-B415-013	1.5	9/10/01	Gross beta		6 pCi/g
PC-B292-002	1	7/21/97	Gross beta		6.2 pCi/g
PC-B321-013	30	4/25/03	Gross beta		6.2 pCi/g
PC-B419-014	3	4/16/02	Gross beta		6.2 pCi/g
PC-B140-017	3	8/29/01	Gross beta		6.3 pCi/g
PC-B140-008	4	8/28/01	Gross beta		6.4 pCi/g

location identifier	depth	sampled	description	< value	units
PC-B140-009	4	8/29/01	Gross beta		6.4 pCi/g
PC-B211-002	4	10/9/97	Gross beta		6.4 pCi/g
PC-T6498-009	3	11/10/05	Gross beta	<	6.4 pCi/g
PC-B140-018	3	8/29/01	Gross beta		6.5 pCi/g
PC-B140-013	2.5	8/28/01	Gross beta		6.6 pCi/g
PC-B142-001	9	7/10/03	Gross beta		6.6 pCi/g
PC-B512-006	4	2/21/06	Gross beta		6.6 pCi/g
PC-B298-002	0	5/3/96	Gross beta	<	6.61 pCi/g
PC-B131-007	1	9/4/03	Gross beta		6.7 pCi/g
PC-B131-008	1	9/4/03	Gross beta	<	6.7 pCi/g
PC-B140-007	5.5	8/28/01	Gross beta		6.7 pCi/g
PC-EPSRU-301	2	7/12/96	Gross beta		6.72 pCi/g
PC-B151-003	1	10/13/04	Gross beta	<	6.8 pCi/g
PC-T4997-003	6	7/8/03	Gross beta		6.8 pCi/g
PC-T6498-007	3	11/10/05	Gross beta	<	6.8 pCi/g
PC-T1478-001	0.5	7/22/03	Gross beta		6.9 pCi/g
PC-B140-011	4	8/28/01	Gross beta		7 pCi/g
PC-T2685-001	1.5	9/12/01	Gross beta		7 pCi/g
PC-T4725-001	5	4/17/03	Gross beta		7 pCi/g
PC-T4725-002	5	4/17/03	Gross beta		7 pCi/g
PC-B131-009	1	9/4/03	Gross beta	<	7.1 pCi/g
PC-B140-019	3	8/28/01	Gross beta		7.1 pCi/g
PC-B140-021	1.5	8/29/01	Gross beta		7.1 pCi/g
PC-EPSRU-305	2	7/12/96	Gross beta		7.15 pCi/g
PC-B140-005	5.5	8/28/01	Gross beta		7.2 pCi/g
PC-B321-013	15	4/25/03	Gross beta		7.2 pCi/g
PC-B697-002	1	9/7/04	Gross beta	<	7.2 pCi/g
PC-T2787-001	1.5	9/17/01	Gross beta		7.2 pCi/g
PC-B140-022	1.5	8/29/01	Gross beta		7.3 pCi/g
PC-B381-001	0	5/3/96	Gross beta		7.47 pCi/g
PC-B140-010	4	8/28/01	Gross beta		7.5 pCi/g
PC-B543-002	1.5	10/23/01	Gross beta		7.5 pCi/g
PC-T1888-001	1.5	10/1/01	Gross beta		7.5 pCi/g
PC-T4997-001	6	7/8/03	Gross beta		7.5 pCi/g
PC-B131-010	1	9/4/03	Gross beta		7.9 pCi/g
PC-B140-006	5.5	8/28/01	Gross beta		7.9 pCi/g
PC-B321-008	3	7/2/02	Gross beta		7.9 pCi/g
PC-B321-012	4.5	2/27/03	Gross beta		8 pCi/g
PC-B697-002	1	9/7/04	Gross beta	<	8 pCi/g
PC-B335-002	2	12/16/02	Gross beta	<	8.2 pCi/g
PC-B321-011	2.5	2/27/03	Gross beta	<	8.4 pCi/g
PC-B121-002	6	7/25/01	Gross beta		8.5 pCi/g
PC-B243-003	2	7/22/03	Gross beta		8.5 pCi/g
PC-B321-010	4.5	2/27/03	Gross beta		8.5 pCi/g
PC-B492-002	6	8/7/01	Gross beta		8.5 pCi/g
PC-B481-007	6	7/3/03	Gross beta		8.6 pCi/g
PC-T4326-001	1.5	9/24/01	Gross beta		8.6 pCi/g
PC-B512-005	4	7/24/03	Gross beta		8.7 pCi/g
PC-T1888-001	1.5	10/1/01	Gross beta		8.7 pCi/g

location identifier	depth	sampled	description	< value	units
PC-B332-056	3	8/11/03	Gross beta		8.8 pCi/g
PC-ASW-002	7	1/22/04	Gross beta	<	8.9 pCi/g
PC-T3926-001	1	8/9/01	Gross beta		9 pCi/g
PC-T4997-002	6	7/8/03	Gross beta		9.1 pCi/g
PC-T4180-001	3	5/21/02	Gross beta		9.2 pCi/g
PC-B314-002	1.5	10/15/01	Gross beta		9.3 pCi/g
PC-B361-015	2	7/23/03	Gross beta		9.5 pCi/g
PC-B332-055	5	2/20/03	Gross beta	<	9.6 pCi/g
PC-NAL-008	1	1/22/02	Gross beta		9.8 pCi/g
PC-T1888-001	1.5	10/1/01	Gross beta		9.9 pCi/g
PC-T1404-001	2	7/22/03	Gross beta		10 pCi/g
PC-T5626-004	1	2/4/03	Gross beta		10 pCi/g
PC-EPSRU-306	2	7/12/96	Gross beta	<	10.3 pCi/g
PC-B153-007	3	4/8/03	Gross beta		11 pCi/g
PC-M&O-002	1	4/30/03	Gross beta		11 pCi/g
PC-T1629-001	1.5	9/25/01	Gross beta		11 pCi/g
PC-T2629-002	1	8/26/02	Gross beta		11 pCi/g
PC-T3777-001	6	5/28/02	Gross beta		11 pCi/g
PC-B341-003	2	9/24/01	Gross beta		12 pCi/g
PC-T5626-005	1	2/4/03	Gross beta		12 pCi/g
PC-B227-001	3	6/12/01	Gross beta		13 pCi/g
PC-B321-036	0.5	5/22/01	Gross beta		13 pCi/g
PC-B343-002	4	11/4/02	Gross beta		13 pCi/g
PC-B436-009	5	7/15/02	Gross beta		16 pCi/g
PC-5THSX-001	6	9/5/02	Gross beta		18 pCi/g
PC-B041-001	4	9/4/02	Gross beta		18 pCi/g
PC-B151-001	0.5	6/24/02	Gross beta		18 pCi/g
PC-B343-003	4	11/4/02	Gross beta		18 pCi/g
PC-B343-001	4	10/15/02	Gross beta		19 pCi/g
PC-B231-024	2	1/28/03	Gross beta		26 pCi/g
PC-M&O-003	1	4/30/03	Gross beta		22 pCi/g
				N	475
				mean	3.6
				stdev	3.2
				mean plus 2 SD	10.0
				95%ile	9.5
				95th utl rank	459.6
				95th ucl of 95%ile	11

SITE 300 GROSS ALPHA

PC-B823-002	4.5	6/11/96	Gross alpha	<	-1.25 pCi/g
PC-B882-002	0	2/15/96	Gross alpha		1.88 pCi/g
PC-B823-001	4.5	6/11/96	Gross alpha	<	0.0827 pCi/g
PC-B854-030	1	6/23/03	Gross alpha		0.46 pCi/g
PC-B850-003	0.5	8/10/05	Gross alpha	<	0.83 pCi/g
PC-B880-012	1.5	12/13/02	Gross alpha	<	1 pCi/g
PC-B888-008	5	1/28/99	Gross alpha	<	1.6 pCi/g
PC-B882-001	0	2/15/96	Gross alpha	<	1.68 pCi/g
PC-B882-003	0	2/15/96	Gross alpha	<	1.68 pCi/g

location identifier	depth	sampled	description	< value	units
PC-B845-006	1	2/27/96	Gross alpha	< 1.69	pCi/g
PC-B804-001	0	12/13/95	Gross alpha	< 1.7	pCi/g
PC-B888-001	1	1/28/99	Gross alpha	< 1.8	pCi/g
PC-B827-010	0	12/13/95	Gross alpha	< 2.1	pCi/g
PC-B875-001	10	10/20/04	Gross alpha	< 2.6	pCi/g
PC-B888-010	1	1/28/99	Gross alpha	2.7	pCi/g
PC-B888-005	5	1/28/99	Gross alpha	2.8	pCi/g
PC-B898-001	1	9/7/95	Gross alpha	< 2.8	pCi/g
PC-B851-018	0	1/19/95	Gross alpha	3	pCi/g
PC-B845-006	7	2/27/96	Gross alpha	3.12	pCi/g
PC-B865-003	3	6/29/05	Gross alpha	< 3.2	pCi/g
PC-B834-006	2	4/19/02	Gross alpha	< 3.3	pCi/g
PC-B845-006	4	2/27/96	Gross alpha	3.3	pCi/g
PC-B888-004	5	1/28/99	Gross alpha	3.3	pCi/g
PC-B855-001	16	8/10/05	Gross alpha	3.4	pCi/g
PC-B827-012	0	5/7/97	Gross alpha	3.5	pCi/g
PC-B888-006	5	1/28/99	Gross alpha	3.5	pCi/g
PC-B801-021	3	9/22/96	Gross alpha	3.79	pCi/g
PC-B801-018	3	9/30/96	Gross alpha	3.8	pCi/g
PC-B865-004	3	6/29/05	Gross alpha	3.8	pCi/g
PC-B873-005	0	10/30/97	Gross alpha	3.8	pCi/g
PC-B801-004	3	9/18/96	Gross alpha	3.89	pCi/g
PC-B827-012	0	5/7/97	Gross alpha	3.9	pCi/g
PC-B888-009	5	1/28/99	Gross alpha	3.9	pCi/g
PC-B801-022	3	9/22/96	Gross alpha	3.94	pCi/g
PC-B801-005	3	9/18/96	Gross alpha	3.97	pCi/g
PC-B888-002	1	1/28/99	Gross alpha	4.1	pCi/g
PC-B888-003	3	1/28/99	Gross alpha	4.1	pCi/g
PC-B801-006	3	9/18/96	Gross alpha	4.13	pCi/g
PC-B801-010	3	9/20/96	Gross alpha	4.16	pCi/g
PC-B827-012	0	5/7/97	Gross alpha	4.2	pCi/g
PC-B899-002	18	6/3/02	Gross alpha	4.2	pCi/g
PC-B801-020	3	9/22/96	Gross alpha	4.39	pCi/g
PC-B827-011	0	12/13/95	Gross alpha	4.4	pCi/g
PC-B801-019	3	9/22/96	Gross alpha	4.47	pCi/g
PC-B899-001	18	6/3/02	Gross alpha	4.5	pCi/g
PC-B846-001	0	7/9/97	Gross alpha	4.6	pCi/g
PC-B888-007	5	1/28/99	Gross alpha	4.7	pCi/g
PC-B827-012	0	5/7/97	Gross alpha	4.9	pCi/g
PC-B801-009	3	9/20/96	Gross alpha	5.09	pCi/g
PC-B844-001	2	9/25/00	Gross alpha	5.2	pCi/g
PC-B809-010	0	1/19/95	Gross alpha	5.3	pCi/g
PC-B809-010	0	1/19/95	Gross alpha	5.4	pCi/g
PC-B801-020	1	9/22/96	Gross alpha	5.67	pCi/g
PC-B801-023	3	9/22/96	Gross alpha	5.8	pCi/g
PC-B801-011	3	9/20/96	Gross alpha	5.9	pCi/g
PC-B801-018	1	9/30/96	Gross alpha	5.9	pCi/g
PC-B832-001	0	6/2/98	Gross alpha	6	pCi/g
PC-B834-006	2	4/19/02	Gross alpha	6.1	pCi/g

location identifier	depth	sampled	description	< value	units
PC-B832-002	0	12/16/98	Gross alpha	6.2	pCi/g
PC-B801-006	1	9/18/96	Gross alpha	6.33	pCi/g
PC-B880-009	1.5	12/13/02	Gross alpha	< 6.4	pCi/g
PC-B801-023	1	9/22/96	Gross alpha	6.6	pCi/g
PC-B801-022	1	9/22/96	Gross alpha	6.8	pCi/g
PC-B801-014	3	9/20/96	Gross alpha	6.86	pCi/g
PC-B801-015	3	9/20/96	Gross alpha	6.88	pCi/g
PC-B801-008	3	9/30/96	Gross alpha	6.9	pCi/g
PC-B851-018	0	1/19/95	Gross alpha	7.1	pCi/g
PC-B801-005	1	9/18/96	Gross alpha	7.2	pCi/g
PC-B801-018	1	9/30/96	Gross alpha	7.2	pCi/g
PC-B801-021	1	9/22/96	Gross alpha	7.3	pCi/g
PC-B801-007	3	9/17/96	Gross alpha	7.4	pCi/g
PC-B801-003	3	9/18/96	Gross alpha	7.6	pCi/g
PC-B801-017	3	9/30/96	Gross alpha	7.7	pCi/g
PC-B801-019	1	9/22/96	Gross alpha	7.7	pCi/g
PC-B815-018	0	5/18/95	Gross alpha	8.6	pCi/g
PC-B871-001	7.5	10/7/02	Gross alpha	8.8	pCi/g
PC-B801-016	3	9/20/96	Gross alpha	9.5	pCi/g
PC-B801-002	3	9/23/96	Gross alpha	9.7	pCi/g
PC-B801-033	3	10/13/97	Gross alpha	9.7	pCi/g
PC-B801-017	3	9/30/96	Gross alpha	9.8	pCi/g
PC-B801-013	3	9/20/96	Gross alpha	9.9	pCi/g
PC-B801-008	3	9/30/96	Gross alpha	10.9	pCi/g
PC-B871-002	7.5	10/7/02	Gross alpha	11	pCi/g
PC-B879-001	2	2/18/03	Gross alpha	11	pCi/g
PC-B801-004	1	9/18/96	Gross alpha	11.4	pCi/g
PC-B801-003	1	9/18/96	Gross alpha	14	pCi/g
				N	86
				mean	5.1
				stdev	2.9
				mean plus 2 SD	10.9
				95%ile	10.7
				95th utl rank	85.5
				95th ucl of 95%ile	11

SITE 300 GROSS BETA

PC-B875-001	10	10/20/04	Gross beta	<	-0.3 pCi/g
PC-B850-003	0.5	8/10/05	Gross beta	<	1 pCi/g
PC-B882-002	0	2/15/96	Gross beta	<	1.12 pCi/g
PC-B882-001	0	2/15/96	Gross beta	<	1.18 pCi/g
PC-B854-030	1	6/23/03	Gross beta		1.9 pCi/g
PC-B865-004	3	6/29/05	Gross beta	<	1.9 pCi/g
PC-B888-004	5	1/28/99	Gross beta	<	1.9 pCi/g
PC-B801-022	3	9/22/96	Gross beta		2.26 pCi/g
PC-B888-006	5	1/28/99	Gross beta	<	2.4 pCi/g
PC-B801-018	3	9/30/96	Gross beta		2.45 pCi/g
PC-B801-004	3	9/18/96	Gross beta		2.48 pCi/g

location identifier	depth	sampled	description	< value	units
PC-B855-001	16	8/10/05	Gross beta		2.5 pCi/g
PC-B845-006	1	2/27/96	Gross beta	<	2.59 pCi/g
PC-B801-021	3	9/22/96	Gross beta		2.68 pCi/g
PC-B865-003	3	6/29/05	Gross beta	<	2.8 pCi/g
PC-B804-001	0	12/13/95	Gross beta	<	3 pCi/g
PC-B827-010	0	12/13/95	Gross beta	<	3 pCi/g
PC-B801-023	3	9/22/96	Gross beta		3.01 pCi/g
PC-B801-005	3	9/18/96	Gross beta		3.08 pCi/g
PC-B888-007	5	1/28/99	Gross beta		3.1 pCi/g
PC-B801-020	3	9/22/96	Gross beta		3.2 pCi/g
PC-B846-001	0	7/9/97	Gross beta		3.2 pCi/g
PC-B898-001	1	9/7/95	Gross beta	<	3.3 pCi/g
PC-B801-019	3	9/22/96	Gross beta		3.47 pCi/g
PC-B809-010	0	1/19/95	Gross beta		3.5 pCi/g
PC-B801-009	3	9/20/96	Gross beta		3.55 pCi/g
PC-B801-006	3	9/18/96	Gross beta		3.68 pCi/g
PC-B801-022	1	9/22/96	Gross beta		3.76 pCi/g
PC-B827-012	0	5/7/97	Gross beta		3.8 pCi/g
PC-B888-001	1	1/28/99	Gross beta		3.9 pCi/g
PC-B888-002	1	1/28/99	Gross beta		3.9 pCi/g
PC-B882-003	0	2/15/96	Gross beta		4 pCi/g
PC-B888-005	5	1/28/99	Gross beta		4 pCi/g
PC-B888-010	1	1/28/99	Gross beta		4 pCi/g
PC-B827-012	0	5/7/97	Gross beta		4.1 pCi/g
PC-B851-018	0	1/19/95	Gross beta		4.1 pCi/g
PC-B888-003	3	1/28/99	Gross beta		4.1 pCi/g
PC-B823-001	4.5	6/11/96	Gross beta	<	4.15 pCi/g
PC-B888-009	5	1/28/99	Gross beta		4.2 pCi/g
PC-B801-021	1	9/22/96	Gross beta		4.32 pCi/g
PC-B801-023	1	9/22/96	Gross beta		4.35 pCi/g
PC-B809-010	0	1/19/95	Gross beta		4.4 pCi/g
PC-B888-008	5	1/28/99	Gross beta		4.4 pCi/g
PC-B801-011	3	9/20/96	Gross beta		4.41 pCi/g
PC-B801-020	1	9/22/96	Gross beta		4.46 pCi/g
PC-B844-001	2	9/25/00	Gross beta		4.5 pCi/g
PC-B827-011	0	12/13/95	Gross beta		4.6 pCi/g
PC-B801-003	3	9/18/96	Gross beta		4.81 pCi/g
PC-B801-006	1	9/18/96	Gross beta		4.87 pCi/g
PC-B801-015	3	9/20/96	Gross beta		4.93 pCi/g
PC-B899-001	18	6/3/02	Gross beta	<	5 pCi/g
PC-B801-010	3	9/20/96	Gross beta		5.04 pCi/g
PC-B801-007	3	9/17/96	Gross beta		5.05 pCi/g
PC-B801-005	1	9/18/96	Gross beta		5.07 pCi/g
PC-B827-012	0	5/7/97	Gross beta		5.1 pCi/g
PC-B873-005	0	10/30/97	Gross beta		5.4 pCi/g
PC-B845-006	7	2/27/96	Gross beta		5.48 pCi/g
PC-B801-019	1	9/22/96	Gross beta		5.51 pCi/g
PC-B832-002	0	12/16/98	Gross beta		5.7 pCi/g
PC-B845-006	4	2/27/96	Gross beta		5.83 pCi/g

location identifier	depth	sampled	description	<	value	units
PC-B801-018	1	9/30/96	Gross beta		6.03	pCi/g
PC-B801-014	3	9/20/96	Gross beta		6.08	pCi/g
PC-B832-001	0	6/2/98	Gross beta		6.1	pCi/g
PC-B834-006	2	4/19/02	Gross beta	<	6.4	pCi/g
PC-B834-006	2	4/19/02	Gross beta	<	6.7	pCi/g
PC-B801-004	1	9/18/96	Gross beta		6.97	pCi/g
PC-B815-018	0	5/18/95	Gross beta		7.1	pCi/g
PC-B827-012	0	5/7/97	Gross beta		7.1	pCi/g
PC-B801-016	3	9/20/96	Gross beta		7.28	pCi/g
PC-B801-017	3	9/30/96	Gross beta		7.57	pCi/g
PC-B801-018	1	9/30/96	Gross beta		8.08	pCi/g
PC-B823-002	4.5	6/11/96	Gross beta	<	8.25	pCi/g
PC-B801-008	3	9/30/96	Gross beta		8.3	pCi/g
PC-B851-018	0	1/19/95	Gross beta		8.4	pCi/g
PC-B899-002	18	6/3/02	Gross beta		8.7	pCi/g
PC-B801-017	3	9/30/96	Gross beta		9	pCi/g
PC-B801-003	1	9/18/96	Gross beta		10.02	pCi/g
PC-B801-013	3	9/20/96	Gross beta		10.77	pCi/g
PC-B879-001	2	2/18/03	Gross beta		12	pCi/g
PC-B801-002	3	9/23/96	Gross beta		13.4	pCi/g
PC-B801-008	3	9/30/96	Gross beta		13.9	pCi/g
PC-B871-001	7.5	10/7/02	Gross beta		18	pCi/g
PC-B801-033	3	10/13/97	Gross beta		21	pCi/g
PC-B871-002	7.5	10/7/02	Gross beta		21	pCi/g
PC-B880-009	1.5	12/13/02	Gross beta		21	pCi/g
PC-B880-012	1.5	12/13/02	Gross beta		23	pCi/g
				N	86	
				mean	5.8	
				stdev	4.6	
				mean plus 2 SD	15.0	
				95%ile	17.0	
				95th utl rank	85.5	
				95th ucl of 95%ile	18	